

GREENLEE

TOOLS *for the* WOOD WORKER



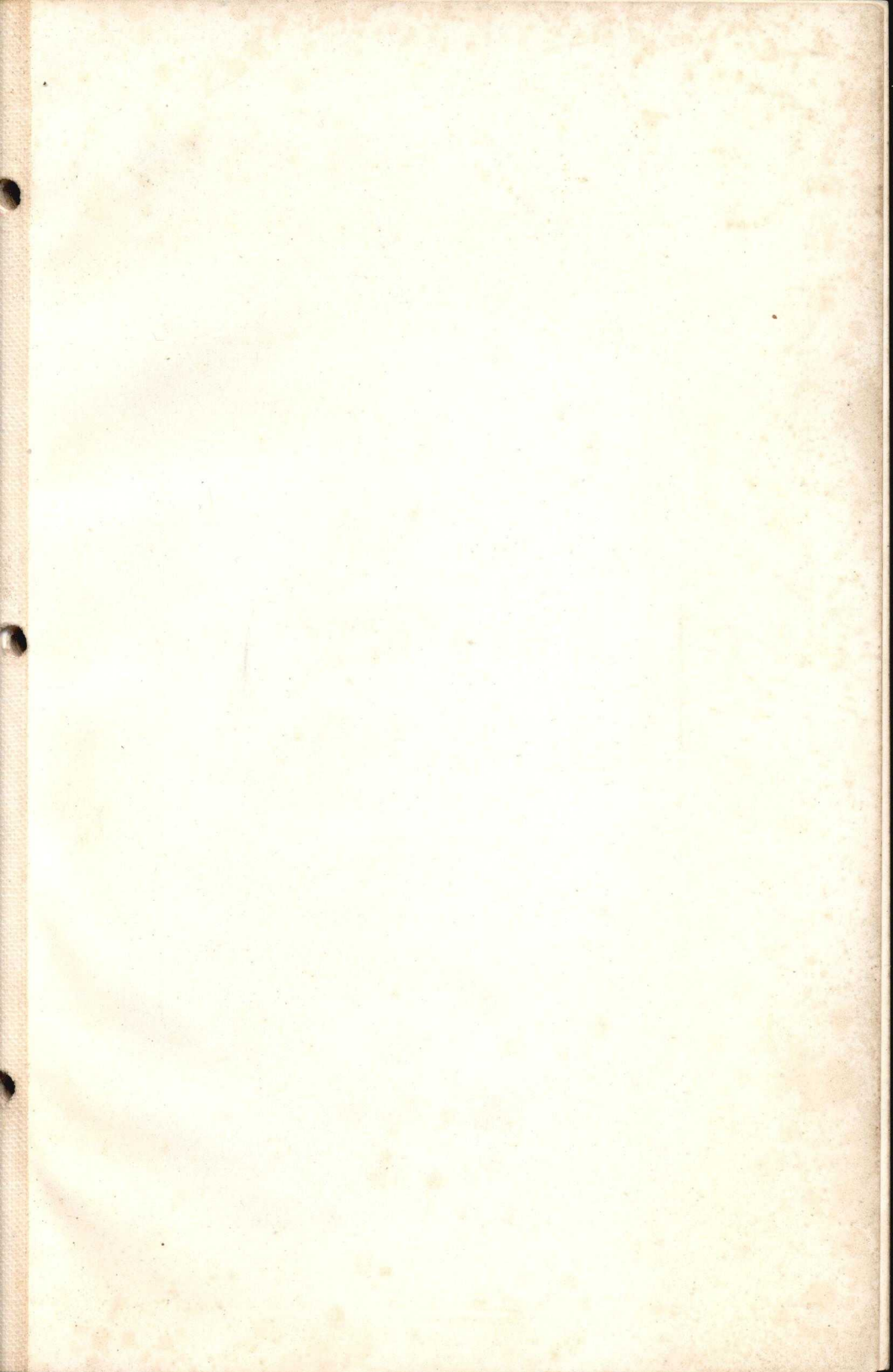
Catalog
No. 29

GREENLEE

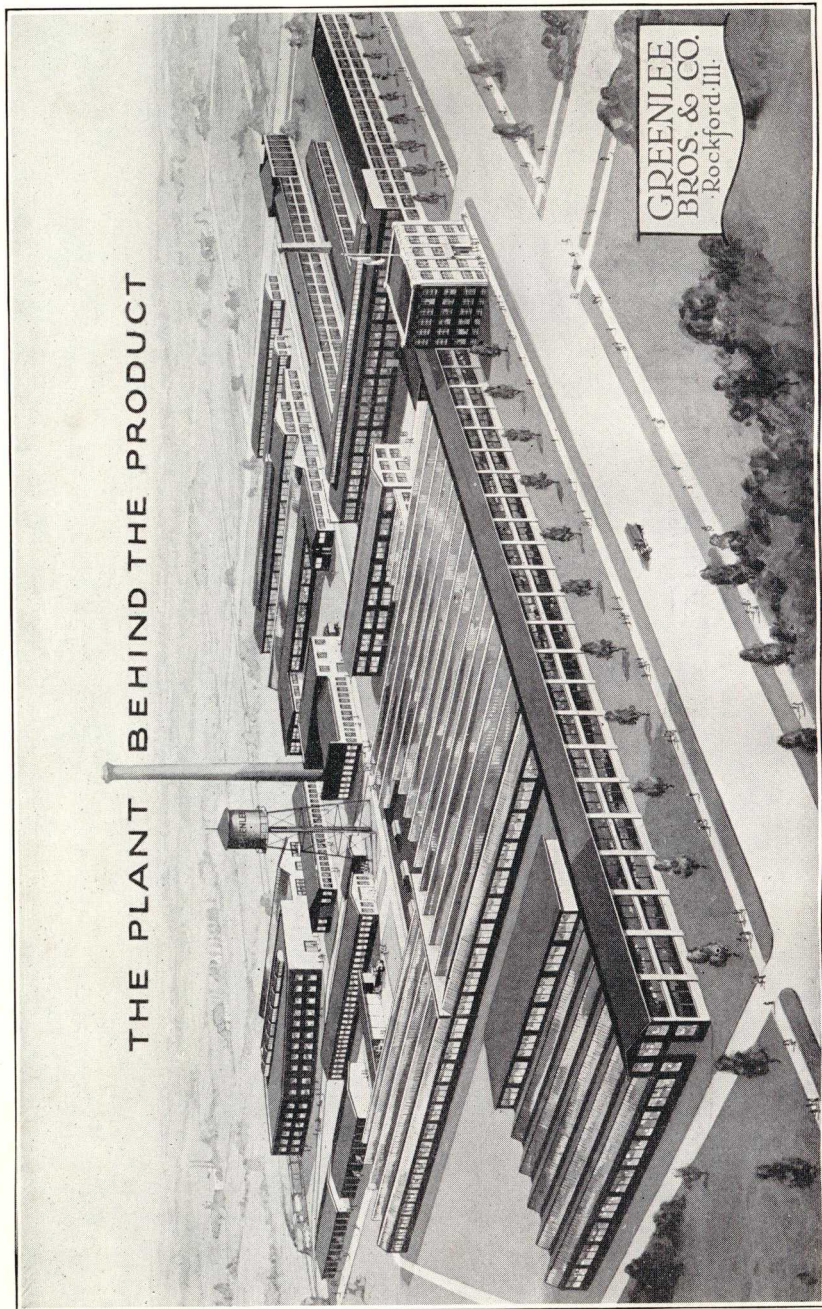
TOOLS
for the
WOOD
WORKER



Catalog
No. 22



THE PLANT BEHIND THE PRODUCT



GREENLEE
BROS. & CO.
Rockford, Ill.

THE GREENLEE PLANT

GREENLEE TOOLS FOR THE WOODWORKER

*Auger Bits, Expansive Bits
Wood Drills, Car Bits, Bit Extensions
and Ship Augers, Boring Machine, Carpenters' and
Ring Augers, Socket and Tang Chisels and
Gouges, Turning Tools and Draw
Knives. Also Various Tools
for Use in Machines
or by Hand*



CATALOG NO. 29

1928

GREENLEE TOOL CO.

ROCKFORD, ILLINOIS, U. S. A.

Cable Address, GREENLEE

Codes—Bentley, Lieber's or Western Union

Printed in U. S. A.

By Way of Introduction

THIS Catalogue has been arranged to show all the regular types of Hand Tools for the Woodworker, manufactured by us, and for sale to the hardware trade. Tools for machine use are covered by a separate issue which will be furnished on request.

For over half a century we have built high grade woodworking machinery, and during most of this time have manufactured mortising and boring tools for use in them. Such tools require the best grades of steel, special machinery, and expert workmanship in order to meet their exacting needs. When we later produced Hand Tools for the Woodworker, we did so with a force trained to manufacture high quality goods. This has been and is our fixed policy.

We, therefore, guarantee every tool bearing the Greenlee name to be free from imperfections of material or workmanship, and superior in quality and service. One of the terms of our guarantee is that tools claimed defective must be returned for our inspection.

We have the capacity to meet all normal demands of our trade due to our most complete and up-to-date equipment, both buildings and machinery. Present and prospective customers are cordially welcomed at our plant, as we are more than glad to show our processes of manufacturing, and demonstrate the fact that our materials and methods are the most perfect known to the trade. Our business and our plant belong to the present and not to the past. We have no trade secrets, no trade delusions.

To the Hardware Trade

THROUGHOUT the following pages we briefly describe Greenlee Auger Bits, Augers, Chisels, Gouges and Draw Knives, denoting form, serial numbers, and code words.

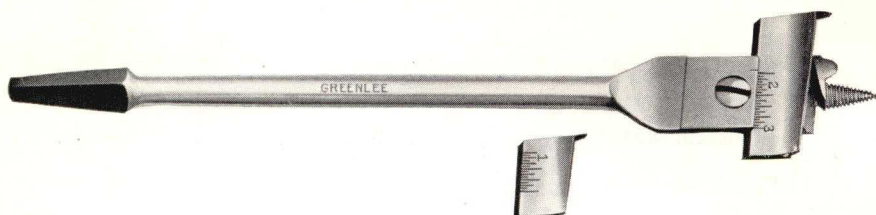
Prices are subject to change without notice although we endeavor to notify customers when any change occurs in the way of an advance, and give them the benefit of any reduction on orders received after such is made. Tools of special nature must be figured on basis of time and material.

Our terms to customers having adequate rating or with satisfactory reference are net cash in thirty days from date of invoice and shipment or 2% cash discount for payment in 10 days. If parties are unknown or without rating, we must ship either C. O. D. with money return charge added, or draft against bill of lading by freight.

Prices are figured on the basis of standard packages and when called upon to furnish broken packages, it means increased handling costs and to cover same we add 10% to the net charge.

All orders are formally acknowledged, and goods are carefully packed and checked. Packing lists are supplied with each shipment. Claims for shortage or errors made must be made on receipt of goods. Our delivery is to the transportation company in all cases except for export trade. Shipments lost or damaged in transit are not at our risk but we will prosecute claim for same in behalf of the purchaser.

If not otherwise instructed, we use our judgment in shipping small orders by freight, express, or parcel post. When shipping by parcel post, we reserve the right to register or insure, charging for same in addition to postage.



Nos. 3 and 4 Plain Expansive Bits

N ECESSARY as Expansive Bits are to certain users, and despite the years this type has been on the market, most of these tools have been difficult to operate due to their inability to clear chips. We have overcome this objection with a new design, the feature of which is the wide and open throat or chip channel. This new construction provides positive clearance of chips, permitting boring without interruption.

All parts of Plain Expansive Bits are fully polished with the exception of the square which is left a natural forge black. The square has proper dimensions and the round of the tool has been reduced, enabling it to fit all standard makes of bit extensions.

The No. 3 Plain Expansive Bit will bore $\frac{1}{2}$ to $1\frac{1}{2}$ ", and the No. 4, $\frac{7}{8}$ to 3". An extra large cutter can also be supplied for the large bit to bore holes up to 4" diameter. Standard packing is one in a box, and half dozen in a carton.

LIST PRICE PER DOZEN

	Price	Code
No. 3 Small, $\frac{1}{2}$ to $1\frac{1}{2}$ "	\$18.00	TERAPENE
No. 3A Cutter, $\frac{1}{2}$ to $\frac{7}{8}$ "	3.00	TERATOID
No. 3B Cutter, $\frac{7}{8}$ to $1\frac{1}{2}$ "	3.75	TERATOSIS
Extra Clamps	1.44	TERBIUM
Extra Clamp Screws	.60	TERCELET
No. 4 Large, $\frac{7}{8}$ to 3"	26.00	TEREBATE
No. 4A Cutter, $\frac{7}{8}$ to $1\frac{3}{4}$ "	5.25	TERABELLA
No. 4B Cutter, $1\frac{3}{4}$ to 3"	6.00	TERABENE
No. 4C Cutter, $2\frac{1}{2}$ to 4"	9.00	TEREBRANT
Extra Clamps	1.80	TEREDIN
Extra Clamp Screws	.70	TERESIAN



Nos. 5 and 6 Setfast Expansive Bits

Patent applied for

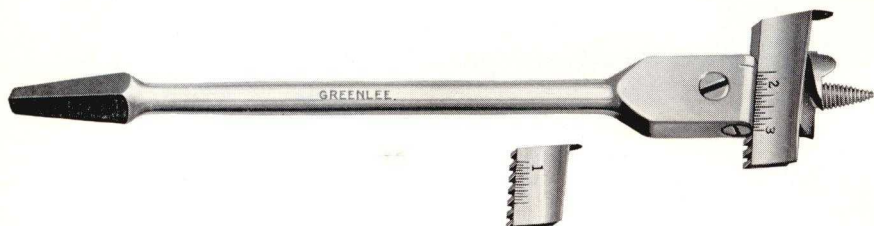
THE Greenlee Setfast Expansive Bit is a brand new idea in tools of this type, in that it has a novel means of adjusting the cutter and locking the parts. It has a very simple construction, consisting of five pieces only, namely, body, two cutters, adjusting barrel, and eccentric pin. The cutters for this tool and the adjusting barrel are fitted with 8 pitch square thread and this permits very rapid setting to size.

The parts of this tool are securely locked by the action of the eccentric pin in the side of the body, which engages the adjusting barrel, causing pressure against the cutter. A quarter turn with a screw driver tightens or loosens the parts and setting of cutter is accomplished by turning the adjusting barrel with thumb. This pattern has the wide open throat which is characteristic of all Greenlee Expansive Bits.

The No. 5 will bore $\frac{5}{8}$ to $1\frac{3}{4}$ inch and the No. 6, $\frac{7}{8}$ to 3 inch with standard cutters and to 4 inch with an extra length cutter. Standard packing is in leatherette case, one in a box, half dozen in a carton.

LIST PRICE PER DOZEN

	Price	Code
No. 5 Small, $\frac{5}{8}$ to $1\frac{3}{4}$ "	\$22.00	TEXTBOOK
No. 5A Cutter, $\frac{5}{8}$ to $1\frac{1}{8}$ "	3.00	TEXTHAND
No. 5B Cutter, $1\frac{1}{8}$ to $1\frac{3}{4}$ "	3.75	TEXTILE
Extra Adjusting Barrels	1.50	TEXTUAL
Extra Eccentric Pins	1.50	TEXTUARRY
No. 6 Large, $\frac{7}{8}$ to 3"	26.00	TEXTURAL
No. 6A Cutter, $\frac{7}{8}$ to $1\frac{3}{4}$ "	5.25	TEXGUINO
No. 6B Cutter, $1\frac{3}{4}$ to 3"	6.00	TEXIARE
No. 6C Cutter, $2\frac{1}{2}$ to 4"	9.00	TEXTARIAN
Extra Adjusting Barrels	1.80	TEXTMAN
Extra Eccentric Pins	1.80	TEXTORIAL



Nos. 7 and 8 Screw Adjusting Expansive Bits

GREENLEE Screw Adjusting Expansive Bits have also the new style open throat for positive clearance of chips. As the name denotes, the cutter is set by means of a screw which prevents creeping. The thread on the cutters and adjusting screw is 8 pitch square, which insures rapid setting to size, and also permits definite locking of parts when lock screw is tightened. These tools have five parts only, no loose clamps.

Screw Adjusting Expansive Bits have all parts highly polished with the exception of the square which is a forge black. The square has proper dimensions and the round of the tool at the shank end has been reduced, permitting it to fit all standard makes of bit extensions.

The No. 7 will bore $\frac{5}{8}$ to $1\frac{3}{4}$ ", and the No. 8, $\frac{7}{8}$ to 3". A cutter for boring to 4" can also be supplied for the large bit. These tools are packed in leatherette case, one in a box, and half dozen to a carton.

LIST PRICE PER DOZEN

	Price	Code
No. 7 Small, $\frac{5}{8}$ to $1\frac{3}{4}$ "	\$22.00	TENABLE
No. 7A Cutter, $\frac{5}{8}$ to $1\frac{1}{8}$ "	3.00	TENACITY
No. 7B Cutter, $1\frac{1}{8}$ to $1\frac{3}{4}$ "	3.75	TENAPOR
Extra Adjusting Screws	.75	TENACY
Extra Lock Screws	.60	TENANTS
No. 8 Large, $\frac{7}{8}$ to 3"	26.00	TENDANCE
No. 8A Cutter, $\frac{7}{8}$ to $1\frac{3}{4}$ "	5.25	TENDERER
No. 8B Cutter, $1\frac{3}{4}$ to 3"	6.00	TENDERLY
No. 8C Cutter, $2\frac{1}{2}$ to 4"	9.00	TENDINAL
Extra Adjusting Screws	.85	TENDRIL
Extra Lock Screws	.70	TENDSOME



LOCK SLEEVE OPEN



LOCK SLEEVE CLOSED

Greenlee Bit Extensions

Patent applied for

THE Greenlee No. 900 Bit Extension has two outstanding features. First the design which permits sufficient strength to drive a bit up to 1-inch diameter but small enough to follow a $\frac{5}{8}$ -inch bit. This is due to the thin outer shell, which does not drive the bit, the driving coming from the bit chuck within. There are but five major parts, all exposed surfaces of which are nickel plated except the square, which is lacquered green.

The second feature is its positive lock, which prevents the loosening of the holding sleeve, insuring an absolute grip on shank at all times. This lock consists of a sleeve with a spring tension, which engages the screw sleeve when released, and a $\frac{3}{32}$ -inch pin prevents its turning. An accurately shaped recess in the chuck accommodates the shank of a bit, which is held by drawing the holding sleeve against the corners of the square.

THE GREENLEE NO. 925 BIT EXTENSION is similar in design except it is made extra heavy to follow a $\frac{13}{16}$ -inch Auger Bit and drive tools up to 2-inch diameter.

Standard packing is one in a leatherette case. Listed sizes in stock.

LIST PRICE EACH

No. 900	12"	15"	18"	21"	24"	30"
Code	TUBEFOOT	TUBERIN	TUBEROSE	TUBECAST	TUBEWORM	TUBIFOR M
Price	\$2.10	2.20	2.25	2.35	2.40	2.50
No. 925			18"		24"	
Code			TULLIBEE		TULLIHOO	
Price			\$2.75		3.00	



No. 22 Solid Center Auger Bit

THE Greenlee Solid Center Auger Bit has double cutter head with extension lips, and fitted with medium pitch screw point. This bit is completely polished with the exception of the square which is left a forge black.

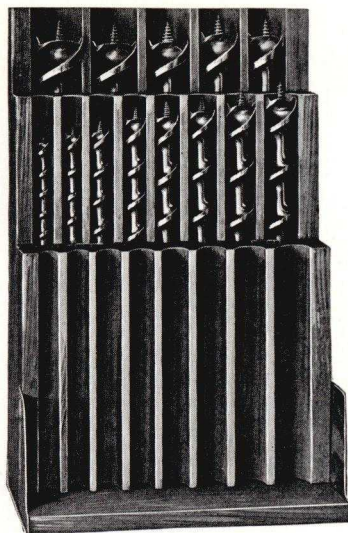
The center stem gives added stiffness and the single spiral easily elevates chips, which makes this bit desirable for general wood work. Set assortments and lists are shown on pages 9, 10, 11 and 33.

Standard package sizes $1\frac{1}{4}$ -inch and smaller, $\frac{1}{2}$ dozen in box; larger sizes, $\frac{1}{4}$ dozen in box. Listed sizes in stock.

LIST PRICE PER DOZEN

Size in Sixteenths

Size	3	4	5	6	7	8
Code	TAPIRUS	TAPISER	TAPISTRY	TAPLASH	TAPLING	TAPNET
Price	\$4.50	4.00	4.00	4.00	4.50	5.00
Size	9	10	11	12	13	14
Code	TAPPEN	TAPPERER	TAPPISH	TAPPLATE	TAPPOON	TAPRIVET
Price	\$5.50	6.00	7.00	7.00	8.00	8.00
Size	15	16	17	18	19	20
Code	TAPROOM	TAPSCREW	TAPEWORK	TAPSMAN	TAPHOLE	TAPSTRESS
Price	\$9.00	9.00	10.50	10.50	12.00	12.00
Size	21	22	23	24	28	32
Code	TAPSTER	TAPUYA	TAPPUAH	TAPWORT	TAPETRAL	TAPETUM
Price	\$13.50	13.50	15.00	15.00	19.00	23.00



Solid Center Auger Bit Sets in Handy Boxes

WHILE this illustration shows only our set of 32½ quarters No. 22 Solid Center Auger Bits in Handy Box, we also pack sets of 20½, 18¾, 14, and 11¼ quarters in similar box.

The Index Number and Code Word refer to a Set in Handy Box.

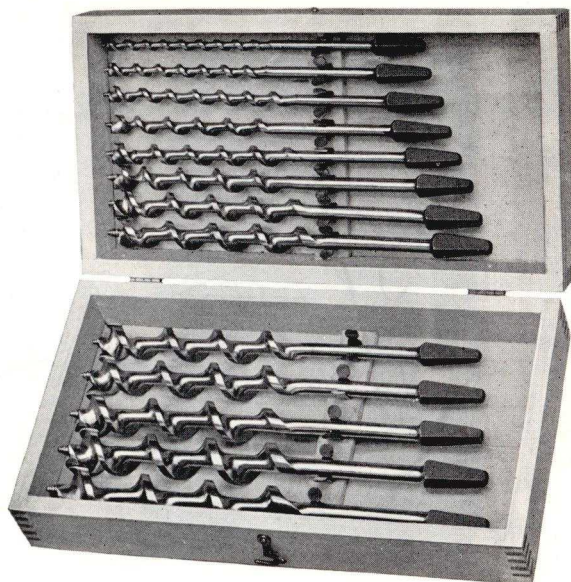
List prices are for bits only. Box charge must be added. See box list.

LIST OF No. 22 SOLID CENTER AUGER BIT SETS

Quarters	11¼	14	18¾	20½	32½
Set	R-22-H	U-22-H	V-22-H	W-22-H	Z-22-H
Code	TACKBLOCK	TACKFREE	TACKCLAW	TACKCOMB	TACKDUTY
Price	\$2.60	3.00	4.00	4.30	6.75

LIST PRICES, EACH, FOR HANDY BOXES

To hold	11¼	14	18¾	20½	32½ Qrs.
Price	\$.85	.85	.95	1.00	1.10



Solid Center Auger Bit Sets in Hinged Boxes

WE HERE show the No. 22 Greenlee Solid Center Auger Bits in set of 32½ quarters in Hinged Box. The same type of box is provided for sets of 20½, 18¾, 14 and 11¼ quarters. Box is well made, properly finished, and bits are held separately by clips.

The Index Number and Code Word refer to the Set in a Hinged Box.

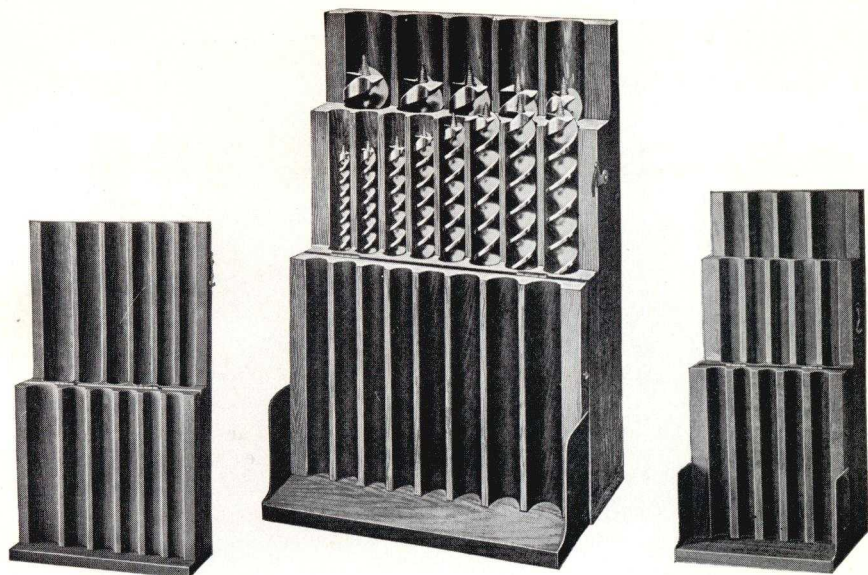
List prices are for bits only. Box charge must be added. See box list.

LIST OF NO. 22 SOLID CENTER AUGER BIT SETS

Quarters	11¼	14	18¾	20½	32½
Set	R-22-K	U-22-K	V-22-K	W-22-K	Z-22-K
Code	TACKER	TACKRIVET	TACKHEAD	TACKINESS	TACKSMAN
Price	\$ 2.60	3.00	4.00	4.30	6.75

LIST PRICES, EACH, FOR HINGED BOXES

To hold	11¼	14	18¾	20½	32½ Qrs.
Price	\$.75	.75	.85	.95	1.00



Extension Lip Auger Bit Sets in Handy Boxes

THE large illustration shows the No. 12 Greenlee Extension Lip Auger Bit set of 32½ quarters in a Handy Box. We also furnish similar boxes for sets of 20½, 18¾, 14 and 11¼ quarters.

This type of box is exceptionally convenient as a bit container. It is well made and strong and will stand rough usage without injury to the bits, better than any other kind.

The Index Number and Code Word refer to the Set in a Handy Box.

List Prices cover the bits only. Box charge must be added. See box list.

LIST OF No. 12 EXTENSION LIP AUGER BIT SETS

Quarters	11¼	14	18¾	20½	32½
Set	R-12-H	U-12-H	V-12-H	W-12-H	Z-12-H
Code	TABACCO	TABARD	TABACHIR	TABACUM	TABANID
Price	\$3.00	3.35	4.50	4.90	7.50

LIST PRICES, EACH, FOR HANDY BOXES

To hold	11¼	14	18¾	20½	32½ Qrs.
Price	\$.85	.85	.95	1.00	1.10



Extension Lip Auger Bit Sets in Hinged Boxes

ABOVE we illustrate a set of 32½ quarters No. 12 Greenlee Extension Lip Auger Bits packed in Hinged Box. The same type of box is provided for sets of 20½, 18¾, 14, and 11¼ quarters.

Box is well made and properly finished. Bits are held separately by means of clips.

The Index Number and Code Word refer to the Set in a Hinged Box.

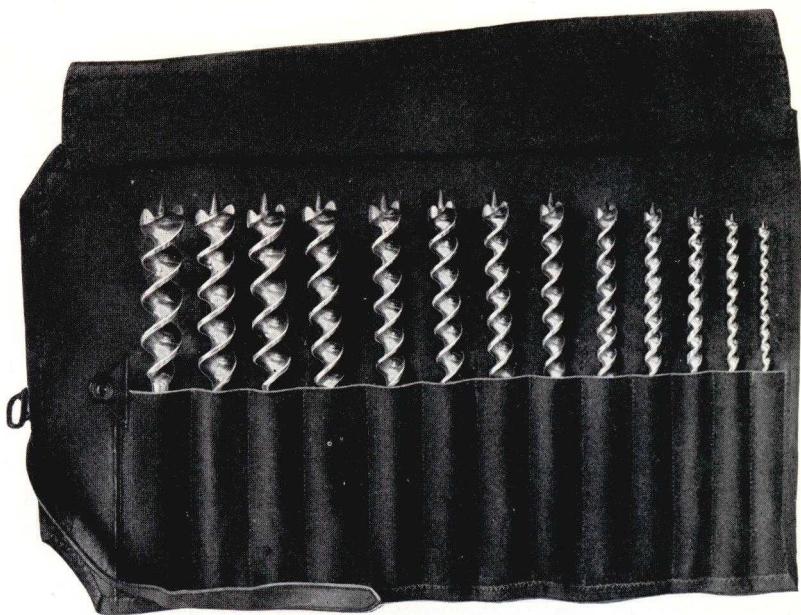
List prices are for bits only. Box charge must be added. See box list.

LIST OF No. 12 EXTENSION LIP AUGER BIT SETS

Quarters	11¼	14	18¾	20½	32½
Set	R-12-K	U-12-K	V-12-K	W-12-K	Z-12-K
Code	TABINET	TABLINA	TABLEAU	TABLET	TABLIER
Price	\$ 3.00	3.35	4.50	4.90	7.50

LIST PRICES, EACH, FOR HINGED BOXES

To hold	11¼	14	18¾	20½	32½ Qrs.
Price	\$.75	.75	.85	.95	1.00



Extension Lip Auger Bit Sets in Leatherette Rolls

A SET of $32\frac{1}{2}$ quarters of our No. 12 Greenlee Extension Lip Auger Bits appears in this leatherette roll. We can also supply this type of roll for sets of $20\frac{1}{2}$, $18\frac{3}{4}$, 14, and $11\frac{1}{4}$ quarters.

The Index Number and Code Word refer to the Set in a Leatherette Roll.

List price covers bits only. Roll charge must be added. See roll list.

LIST OF No. 12 EXTENSION LIP AUGER BIT SETS

Quarters	$11\frac{1}{4}$	14	$18\frac{3}{4}$	$20\frac{1}{2}$	$32\frac{1}{2}$
Set	R-12-M	U-12-M	V-12-M	W-12-M	Z-12-M
Code	TACITUS	TACITA	TACITEAN	TACITNESS	TACITLY
Price	\$ 3.00	3.35	4.50	4.90	7.50

LIST PRICES, EACH, FOR LEATHERETTE ROLLS

To hold	$11\frac{1}{4}$	14	$18\frac{3}{4}$	$20\frac{1}{2}$	$32\frac{1}{2}$ Qrs.
Price	\$.60	.60	.65	.65	.75



No. 20 Utility Auger Bits

OUR Greenlee Utility Auger Bit has won a large field for itself in the best jobbing trade. It is not a Common Auger Bit nor can it be sold at the low prices of such tools. It is a plain yet correct and dependable tool.

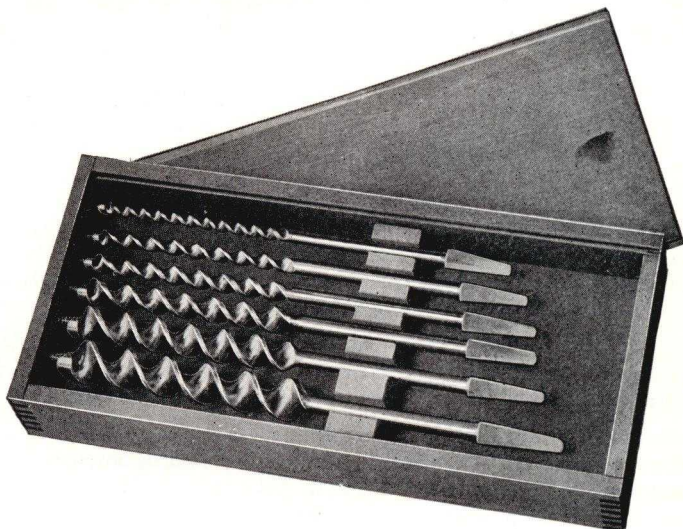
It is not highly polished but has a properly formed square and round, ample for both strength and appearance, a carefully formed twist and a correct cutting head with well shaped lips and spurs. The screw point has a clean thread, and the bit is true to size and correctly centered.

For lists on sets see pages 17 and 33. This type of Auger Bit can also be furnished in fancy set packages as illustrated on pages 9, 10, and 11. Standard package sizes 1¼-inch and smaller, ½ dozen in box; larger sizes, ¼ dozen in box. Listed sizes in stock.

LIST PRICE PER DOZEN

Size in Sixteenths

Size	3	4	5	6	7
Code	TARLAMP	TARLATAN	TARNISH	TARPEIAN	TARRACE
Price	\$6.00	5.00	5.00	5.00	5.00
Size	8	9	10	11	12
Code	TARRASS	TARRIER	TARROCK	TARRYING	TARSALE
Price	\$5.00	6.00	6.00	7.00	7.00
Size	13	14	15	16	17
Code	TARSIER	TARSIOD	TARSIPED	TARSIUS	TARTARIC
Price	\$8.25	8.25	9.50	9.50	12.00
Size	18	20	22	24	32
Code	TARTISH	TARTUESS	TARTRATE	TARTUFE	TARWHINE
Price	\$12.00	14.00	16.00	18.00	26.00





No. 13 Unispur Auger Bit

THE Greenlee Unispur Auger Bit is a double twist tool with single cutter, It has one outlining spur and one cutting edge or chip lifter on the opposite side of head. This type bores smoothly and easily and will go entirely through stock without pressure.

This pattern has the standard Auger Bit dimensions, the twist and round being full polished, and the square a natural forge black. Smaller sizes are fitted with fine pitch point while the larger have a medium feed screw point.

We can pack this type in sets as referred to on pages 9, 10, 11, and 33. Standard package, sizes 1¼-inch and smaller, ½ dozen in box, larger sizes ¼ dozen in box. Listed sizes in stock.

LIST PRICE PER DOZEN

Size in Sixteenths

Size	3	4	5	6	7
Code	TAILBAY	TAILBLOCK	TAILBOARD	TAILEND	TAILLING
Price	\$6.00	5.00	5.00	5.00	5.00
Size	8	9	10	11	12
Code	TAILORBIRD	TAILORING	TAILORMADE	TAILPIECE	TAILPRINT
Price	\$5.00	6.00	6.00	7.00	7.00
Size	13	14	15	16	17
Code	TAILRACE	TAILRIME	TAILROD	TAILROPE	TAILSHAFT
Price	\$8.25	8.25	9.50	9.50	12.00
Size	18	19	20	22	24
Code	TAILSTOCK	TAILZIE	TAIPING	TAKEUP	TAKEOFF
Price	\$12.00	14.00	14.00	16.00	18.00



No. 17 Double Spur Auger Bit

OUR Double Spur Auger Bit will give a greater amount of service due to its having two cutting edges, spurs, and side lips, which will allow considerable sharpening before tool is worn out. This tool is of the double twist type having two channels, properly elevating chips.

It is fitted with a medium coarse screw point, to meet with general requirements. The twist and round are highly finished and the square is left a natural forge black.

For lists on sets, see page 33. This pattern of bit can also be packed in fancy boxes and rolls as illustrated on pages 9, 10, and 11. Standard package sizes $1\frac{1}{4}$ -inch and smaller, $\frac{1}{2}$ dozen in box; larger sizes, $\frac{1}{4}$ dozen in box. Listed sizes in stock.

LIST PRICE PER DOZEN

Size in Sixteenths

Size	3	4	5	6	7	8
Code	TARACHE	TARAFERN	TARAGMA	TARAGON	TARAIRE	TARANDUS
Price	\$6.00	5.00	5.00	5.00	5.00	5.00
Size	9	10	11	12	13	14
Code	TARANIS	TARANTOS	TARASCAN	TARBOARD	TARBOGAN	TARBOOSH
Price	\$6.00	6.00	7.00	7.00	8.25	8.25
Size	15	16	17	18	19	20
Code	TARBRUSH	TARDANDO	TARDATE	TARDIEST	TARDILY	TARENTE
Price	\$9.50	9.50	12.00	12.00	14.00	14.00



No. 21 Solid Center Electrician Auger Bit

OUR No. 21 Electrician Auger Bits have a solid center type of twist, and single cutter head of the extension lip pattern. They are fitted with a coarse screw point for fast feed, and have one spur for outling hole, which insures smooth boring.

The center stem gives rigidity, and the single spiral quickly elevates chips which is necessary for rapid boring. The hollows, edges and round are highly polished and the square is left a natural forge black.

The demand for bits of this nature is only in three sizes and we carry them in stock as listed below.

Standard package, $\frac{1}{2}$ dozen in a box.

LIST PRICE PER DOZEN

Size in Sixteenths

Size	10	11	12
Code	TAXER	TAXMAN	TAXIS
Price	\$6.00	7.00	7.00



No. 31 Double Speed Electrician Auger Bit

ELECTRICIANS prefer our Double Speed Auger Bit as it is the fastest boring tool on the market. It is fitted with a screw point which leads six turns to the inch, or about twice as fast as the average auger bit. The head is of the Double Spur pattern, having two cutting edges, spurs, and side lips, allowing maximum wear.

This auger bit has a coarse threaded, deeply cut double screw, an open twist, strong lips and sharply pitched cutting edges, all proportioned to the demands of unusually rapid feed. While it is particularly suitable for working the softer woods, it gives good results for ordinary use in the harder woods.

Standard package, ½ dozen in box. Listed sizes in stock.

LIST PRICE PER DOZEN

Size in Sixteenths

Size	10	11	12
Code	TAXINE	TAXLESS	TAXLEVY
Price	\$6.00	7.00	7.00

THE Solid Center Unispur Auger Bit has cutting parts like our No. 13 in that the head has only one outlining spur and one cutting edge. The solid center twist is preferred by some users due to its rigidity and chip clearing ability.

Tools of this number have standard Auger Bit dimensions. Smaller sizes have a fine single screw point and the larger are fitted with a medium pitch point. The twist and round are fully polished, while the square is a forge black.

We can pack this type in sets as referred to on pages 9, 10, 11 and 33 Standard package sizes 1¼-inch and smaller, ½ dozen in box; larger sizes, ¼ dozen in box. Listed sizes in stock.

Size in Sixteenths

22



No. 28 Single Twist Auger Bit

THE Single Twist Auger Bit is a tool which we can offer as a thoroughly satisfactory general purpose bit. It will bore easily due to its single cutter head, smoothly as the head is of the extension lip pattern, and it has the strength of the ship auger type of tool.

This bit has polished hollows, round and edges and the square is left a natural forge black. The screw point is of medium coarse pitch and bores entirely through stock without pressure.

For lists on sets see page 33. We can pack Single Twist Auger Bits in fancy boxes and rolls as referred to on pages 9, 10, and 11. Standard package size 1¼-inch and smaller, ½ dozen in box; larger sizes, ¼ dozen in box. Listed sizes in stock.

LIST PRICE PER DOZEN

Size in Sixteenths

Size	3	4	5	6	7
Code	TASKLORD	TASKWORK	TASAGO	TASELED	TASETTE
Price	\$6.00	5.00	5.00	5.00	5.00
Size	8	9	10	11	12
Code	TASTEBUD	TASTEFUL	TASTILY	TASTING	TARTARIZE
Price	\$5.00	6.00	6.00	7.00	7.00
Size	13	14	15	16	18
Code	TATAUPA	TATOUSY	TATTERED	TATTERY	TATTING
Price	\$8.25	8.25	9.50	9.50	12.00



No. 23 Solid Center Ship Auger Bit

THE Greenlee No. 23 Solid Center Ship Auger Bits have one cutting edge with side lip, there being no spur to outline the hole. The twist is of the solid center type giving added stiffness, and the single spiral gives a very wide channel which allows plenty of room for elevation of chips.

These bits are fitted with medium coarse screw point which is common with all tools of the Ship Auger pattern. The hollows, edges, and round are fully polished and the square is left a natural forge black.

While tools of this pattern are not usually called for in set assortments, we can supply and would refer you to page 33. Standard package $\frac{1}{2}$ dozen in box. Listed sizes carried in stock.

LIST PRICE PER DOZEN

Size in Sixteenths

Size	4	5	6	7	8
Code	TECHILY	TECHINESS	TECHNIC	TECHNICAL	TECHNICON
Price	\$4.00	4.00	4.00	4.50	5.00
Size	9	10	11	12	13
Code	TECHNIQUE	TECHNISM	TECHNO	TECNOLOGY	TECOMA
Price	\$5.50	6.00	7.00	7.00	8.00
Size	14	15	16	18	19
Code	TECPATL	TECTONA	TECTONIC	TECTORIAL	TECUMSEH
Price	\$8.00	9.00	9.00	10.50	12.00



No. 39 Ship Auger Bit

OUR No. 39 Greenlee Ship Auger Bits are fitted with a medium coarse screw point, have single cutter head with side lip and without spur. These bits have one chip channel, leaving a heavy section of twist which gives great strength and stiffness. They are completely polished with the exception of the square which is a forge black.

Although these bits do not bore as smoothly as bits with spurs, they feed freely and bore clear through without pressure. These bits are suitable for all kinds of wood and are also recommended for use in the tropical hardwoods.

Standard package, $\frac{1}{2}$ dozen in a box. Listed sizes in stock.

LIST PRICE PER DOZEN

Size in Sixteenths

Size	4	5	6	7	8
Code	TEABALL	TEABERRY	TEABOARD	TEACHABLE	TEACHER
Price	\$6.00	6.00	6.00	6.00	6.00
Size	9	10	11	12	13
Code	TEACHEST	TEACHING	TEACUPS	TEAMING	TEAMITE
Price	\$7.50	7.50	9.00	9.00	10.50
Size	14	15	16	17	18
Code	TEAMWORK	TEARFUL	TEARING	TEASLER	TEARLESS
Price	\$10.50	12.00	12.00	13.50	13.50



No. 16 Unispur Electrician Auger Bit

THIS pattern of electrician bit is fast becoming popular due to its easy and smooth boring qualities. As its name denotes, it has a single cutter head, and only one outlining spur. It is fitted with a deeply cut 8 pitch single screw point for boring one inch in eight turns, provided the screw follows its natural lead.

To take care of electrician's requirements, the twist of this bit is made $5\frac{1}{2}$ inches long and the tool has an overall dimension of 10 inches, not including the screw point. The twist and round of this bit are highly polished and the square is left a natural forge black.

We carry five sizes of this pattern of electrician bit in stock as per sizes listed below. For requirements calling for this type in other sizes, we would refer to our No. 13 Unispur Auger Bits, page 18, or No. 44 Unispur Plumbers Auger Bits, page 27.

Standard package $\frac{1}{2}$ dozen in box.

LIST PRICE PER DOZEN

Size in Sixteenths

Size	10	11	12	13	16
Code	TABBIED	TABEFY	TABELLA	TABERD	TABERNAL
Price	\$6.00	7.00	7.00	8.25	9.50



No. 44 Unispur Plumbers Auger Bit

THIS pattern of Auger Bit is made with a short twist and overall length for plumbers use in boring holes for pipe and it is also well adapted for other boring requirements where ordinary Auger Bits will not function.

Sizes 1-inch and smaller have about 3-inch twist, $5\frac{1}{2}$ -inch overall length, and larger sizes $2\frac{1}{4}$ -inch twist, $5\frac{1}{2}$ -inch overall length. The smaller sizes have a medium pitch screw point, and the larger sizes, to permit easier boring, are fitted with a finer point.

Sizes listed carried in stock. Standard package is six, sizes $1\frac{1}{4}$ -inch and under, three, in sizes over $1\frac{1}{4}$ -inch.

LIST PRICE PER DOZEN

Size in Sixteenths

Size	10	11	12	13	14
Code	TABLINUM	TABLOID	TABOODE	TABORET	TABORINE
Price	\$6.00	7.00	7.00	8.25	8.25
Size	15	16	18	20	22
Code	TABORER	TABULAR	TABETIC	TABORITE	TABIDLY
Price	\$9.50	9.50	12.00	14.00	16.00
Size	24	28	32	36	40
Code	TABIFICE	TABULATE	TABULATOR	TABULATA	TABULATION
Price	\$18.00	22.00	26.00	52.00	56.00



No. 42 Solid Center Dowel Auger Bit

OUR No. 42 Solid Center Dowel Auger Bit has the Extension Lip type of cutting head. This bit is made with a twist length of $2\frac{1}{4}$ inches, round and square $2\frac{3}{4}$ inches long or a complete length of 5 inches.

This tool is similar to the dowel bit shown on opposite page with the exception that it has the solid center pattern of twist which gives added stiffness and strength. The Dowel Auger Bit is the shortest brace tool carried in stock and can be used when boring holes in close quarters.

The hollow, round and edges of this bit are highly finished, and the square is left a natural forge black.

Standard package, $\frac{1}{2}$ dozen in box. Listed sizes carried in stock.

LIST PRICE PER DOZEN

Size in Sixteenths

Size	3	4	5	6	7
Code	THUNDER	THUNDERER	THUNDERING	THUNDEROUS	THUNDERROD
Price	\$4.50	4.00	4.00	4.00	4.50
Size	8	9	10	11	12
Code	THURGH	THURGHFARE	THURIBLE	THURIFIER	THURIFY
Price	\$5.00	5.50	6.00	7.00	7.00
Size	13	14	15	16	
Code	THURINGITE	THURLING	THURLSTONE	THUROCK	
Price	\$8.00	8.00	9.00	9.00	



No. 43 Dowel Auger Bit

THE Greenlee Dowel Auger Bit is furnished in the Extension Lip pattern. This dowel bit has an overall length of 5 inches, of which $2\frac{1}{4}$ inches is twist and $2\frac{3}{4}$ inches round and square.

The twist, round and edges are full polished and the square is a forge black. The head is accurately sized and fitted with a fine double screw point for smooth boring.

In Manual Training Schools, and especially where the younger boys are taught, this Dowel Auger Bit is very suitable and most popular wherever introduced.

Standard package, $\frac{1}{2}$ dozen in box. Listed sizes in stock.

LIST PRICE PER DOZEN

Size in Sixteenths

Size	3	4	5	6	7
Code	TENEBAE	TENEFUL	TENEMENT	TENEDRUM	TENERAL
Price	\$6.00	5.00	5.00	5.00	5.00
Size	8	9	10	11	12
Code	TENETTES	TENFOLD	TENORINO	TENORITE	TENOROOM
Price	\$5.00	6.00	6.00	7.00	7.00
Size	13	14	15	16	
Code	TENOSITIS	TENOTOMIZE	TENETOMY	TENOTOME	
Price	\$8.25	8.25	9.50	9.50	



No. 35 Tropical Auger Bit

THE Greenlee Tropical Auger Bit has a head of the flat cut type. The screw point is well formed with a deep thread. It has a single screw of moderately coarse feed. The twist is open to provide a very rapid clearance of chips.

As the name denotes this bit is particularly designed for boring in the harder tropical wood. It is also popular for boring cross or end grain of domestic hard wood or end grain of soft wood.

The tool is easily sharpened by a flat file, as there is no spur to keep keen or in form. The twist, round and screw are highly polished while the square is a natural black.

Standard package, 1/2 dozen in box. Listed sizes carried in stock.

LIST PRICE PER DOZEN

Size in Sixteenths

Size	4	5	6	7	8
Price	\$5.00	5.00	5.00	5.00	5.00
Code	TEMENOS	TEMERITY	TEMEROUS	TEMPEAN	TEMPERA
Size	9	10	11	12	13
Code	TEMPERED	TEMPEST	TEMPLAR	TEMPLATE	TEMPLES
Price	\$6.00	6.00	7.00	7.00	8.25
Size	14	15	16	18	20
Code	TEMPLIFY	TEMPORAL	TEMPTER	TEMPTING	TEMULENT
Price	\$8.25	9.50	9.50	12.00	14.00



No. 50 Tropical Car Bit

GREENLEE Tropical Car Bit has a head of the flat cut type, twist 8 inches long and overall length of 12 inches. The twist is open to provide a rapid, easy clearance of chips, and the tool is fitted with a medium coarse single screw point.

This bit is particularly designed for boring in the harder tropical woods and also adapted for boring cross or end grain of domestic hard wood or end grain of soft wood.

The tool is easily sharpened by a flat file, as there is no spur to keep keen or in form. The hollows, round and edges are highly polished while the square is a natural forge black.

Standard package, $\frac{1}{2}$ dozen in box. Listed sizes in stock.

LIST PRICE PER DOZEN

Size in Sixteenths

Size	4	5	6	7	8
Code	TERRERITY	TERRETS	TERREOUS	TERRICK	TERRICOLA
Price	\$8.25	8.25	8.25	8.25	8.25
Size	9	10	11	12	13
Code	TERRIAGE	TERRIER	TERRORS	TENSIONAL	TERTAIN
Price	\$10.00	10.00	11.50	11.50	13.50
Size	14	15	16	18	20
Code	TERTIARY	TERTIUM	TERTUTER	TERZETOL	TERZETTO
Price	\$13.50	15.00	15.00	16.50	18.00

Millimeter Auger Bits

A PORTION of our export trade requires Auger Bits in millimeter sizes. For them we carry a stock of No. 22M Solid Center Auger Bits taking list as published below.

Other types may be made on special orders and would be sold from our standard No. 12 Extension Lip or No. 28 Single Twist Auger Bit lists. List prices for these types are obtained by figuring any millimeter size, using the next larger sixteenth list.

LIST PRICES OF GREENLEE No. 22M SOLID CENTER AUGER BITS

Price per Dozen Size in Millimeters

Size	5	6	7	8	9	10
Price	\$4.50	4.00	4.00	4.00	4.00	4.50
Size	11	12	13	14	15	16
Price	\$4.50	5.00	5.00	5.50	6.00	6.00
Size	17	18	19	20	21	22
Price	\$7.00	7.00	7.00	8.00	8.00	8.00
Size	23	24	25	26	27	28
Price	\$9.00	9.00	9.00	10.50	10.50	10.50
Size	29	30	31	32	33	34
Price	\$12.00	12.00	12.00	12.00	13.50	13.50
Size	35	36	37	38	39	40
Price	\$13.50	15.00	15.00	15.00	17.00	17.00
Size	41	42	43	44	45	46
Price	\$17.00	19.00	19.00	19.00	21.00	21.00
Size	47	48	49	50	51	
Price	\$21.00	21.00	23.00	23.00	23.00	

Auger Bit Set Assortments and Lists

No. of Quarters	Number and Size of Bits in the Set	Stand- ard List	Solid Center List
32½	With 13 Bits from ¼ to 1-inch..... One 4-5-6-7-8-9-10-11-12-13-14-15-16	\$ 7.50	\$ 6.75
25½	With 11 Bits from ¼ to 1-inch..... One 4-5-6-7-8-9-10-11-12-14-16	6.00	5.50
24	With 12 Bits from ¼ to ¾-inch..... One 4-5-7-9-11-12 and two each 6-8-10	5.90	5.25
22½	With 12 Bits from ¼ to ¾-inch..... One 5-7-9-10-11-12 and two each 4-6-8	5.80	5.15
21	With 11 Bits from ¼ to ¾-inch..... One 5-6-7-9-10-11-12 and two each 4-8	5.40	4.80
20½	With 9 Bits from ¼ to 1-inch..... One 4-5-6-7-8-10-12-14-16	4.90	4.30
18¾	With 8 Bits from ¼ to 1-inch..... One 4-5-6-8-10-12-14-16	4.50	4.00
18	With 9 Bits from ¼ to ¾-inch..... One 4-5-6-7-8-9-10-11-12	4.50	4.00
17½	With 7 Bits from ¼ to 1-inch..... One 4-6-8-10-12-14-16	4.00	3.70
15¼	With 7 Bits from ¼ to 1-inch..... One 4-5-6-8-10-12-16	3.75	3.35
14	With 6 Bits from ¼ to 1-inch..... One 4-6-8-10-12-16	3.35	3.00
11¼	With 6 Bits from ¼ to ¾-inch..... One 4-5-6-8-10-12	3.00	2.60

We list above all the regular Auger Bit Sets showing the assortment of sizes and the standard list price applying to each. Special set assortment can also be furnished and prices will be quoted on specifications.

The list prices cover the bits only, packed in plain wood or paper boxes.



No. 46 Wood Boring Brace Drill

OUR Greenlee Brace Drills for wood are not to be confused with the common competition drill. Our tools are higher in price, but they have the value not only in material and grade of workmanship, but also in the finish. All of the Drill except the square shank is polished and left bright. Length of twist varies from $2\frac{1}{4}$ to 4 inches and overall length from $4\frac{1}{2}$ to 8 inches.

The body of metal in the twist or flute is amply heavy to give strength but yet not interfere with chip clearance. The edge of the twist is relieved by grinding to secure the minimum friction with the wood.

Standard gackage, $\frac{1}{2}$ dozen in box. Listed sizes carried in stock.

LIST PRICE PER DOZEN

Size in Thirty-seconds

Size	3	4	5	6	7	8
Code	TENTACLE	TENTAGE	TENTBED	TENTFLY	TENTFUL	TENTGUY
Price	\$3.25	3.25	3.50	4.00	4.50	5.00
Size	9	10	11	12	13	14
Code	TENTHLY	TENTIGO	TENTLESS	TENTORY	TENTPEG	TENTPIN
Price	\$5.50	6.00	6.50	7.00	7.50	8.00
Size	15	16	17	18	20	22
Code	TENTPOLE	TENTROPE	TENUATE	TENTTALL	TENTURE	TENTWISE
Price	\$8.75	9.50	10.25	11.00	12.50	14.50



No. 48 Bell Hanger Drill

OUR Greenlee Bell Hanger Drill is made with twist $3\frac{3}{4}$ inches long. The overall length may be designated by code word as follows: 12-inch, TERRIBLE; 18-inch, TERRIOR; 24-inch, TERRIFIC; 30-inch, TERRINE.

LIST PRICE PER DOZEN

Size in Thirty-seconds

Size	6	8	10	12	14
Code	TERGIANT	TERGITE	TERMATIC	TERMINAL	TERMINER
Price—					
12-inch	\$7.50	8.00	8.75	9.50	10.50
18-inch	10.00	10.50	11.00	12.00	13.00
24-inch	12.50	13.00	13.50	14.50	15.50
30-inch	15.00	15.50	16.00	17.00	18.00
Size	16	18	20	22	24
Code	TERMINUS	TERMLESS	TERNARY	TARNATAN	TERPENE
Price—					
12-inch	\$12.00	13.50	15.25	17.00	19.00
18-inch	14.50	16.00	17.75	19.50	21.50
24-inch	17.00	18.50	20.25	22.00	24.00
30-inch	19.50	21.00	22.75	24.50	26.50
Size	26	28	30	32	36
Code	TERPINOL	TERPUCK	TERRACE	TERRAIN	TERRAPIN
Price—					
12-inch	\$21.00	23.00	25.00	27.50	33.00
18-inch	23.50	25.50	27.50	30.00	36.00
24-inch	26.00	28.00	30.00	32.50	39.00
30-inch	28.50	30.50	32.50	35.50	42.50



No. 54 Double Spur Car Bit

THE Greenlee Double Spur Car Bit as shown has 12-inch twist and measures 16 to 17 inches overall. In making these tools, we give special attention to the clearance and cutting qualities required for bits boring to the greater depths.

Our Double Spur Car Bits are thoroughly well finished. The twist and round are fully polished, and the screw is brightened while the square is a forge black.

Standard package, $\frac{1}{2}$ dozen in box. A stock is carried in all sizes listed below.

LIST PRICE PER DOZEN

Size in Sixteenths

Size	4	5	6	7	8	9
Code	TESTAMUR	TESTATER	TESTBOX	TESTCASE	TESTERN	TESTHOLE
Price	\$11.25	11.25	11.25	11.25	11.25	12.50
Size	10	11	12	13	14	15
Code	TESTIERE	TESTIFY	TESTITIS	TESTMEAL	TESTNAIL	TESTOATH
Price	\$13.75	15.00	16.25	17.50	19.00	20.50
Size	16	17	18	19	20	21
Code	TESTONE	TESTPUMP	TESTRIL	TESTUDO	TESTRING	TESTULE
Price	\$22.00	24.00	26.00	28.00	30.00	32.00



No. 55 Extension Lip Car Bit

TO PROVIDE a car bit with the smooth boring qualities so generally demanded in the auger bit, we offer the Greenlee Extension Lip Car Bit. This bit will bore smoothly, cut freely and feed in with a minimum amount of pressure.

The point is of medium size with a clean, deep thread. The spurs and cutting edges are carefully formed and proportioned. With the exception of the square portion of the shank, the tool is highly polished.

Standard package, $\frac{1}{2}$ dozen in box. Listed sizes carried in stock.

LIST PRICE PER DOZEN

Size in Sixteenths

Size	4	5	6	7	8	9
Code	TELAMON	TELARION	TELEITHY	TELEMETER	TELEPATHY	TELESCOPE
Price	\$11.25	11.25	11.25	11.25	11.25	12.50
Size	10	11	12	13	14	15
Code	TELESEME	TELESIA	TELESTIC	TELEFORD	TELEFERA	TELINGA
Price	\$13.75	15.00	16.25	17.50	19.00	20.50
Size	16	17	18	19	20	22
Code	TELIOST	TELLINA	TELLTALE	TELEZ	TELLURET	TELLINOID
Price	\$22.00	24.00	26.00	28.00	30.00	34.00



No. 53 Solid Center Car Bit

8-INCH TWIST—12-INCH OVERALL

CAR Bits of this length take our No. 53 and they have the same type of twist and cutting parts as our No. 22 Solid Center Auger Bits. These tools have two spurs, and double cutting edges of the extension lip pattern.

They are fitted with a medium coarse screw point for general purposes. The hollows, edges and round are highly polished and the square is a natural forge black. If car bits of greater length are desired, refer to page 40 illustrating our No. 56.

Standard package, $\frac{1}{2}$ dozen in a box. Listed sizes in stock.

LIST PRICE PER DOZEN

Size in Sixteenths

Size	4	5	6	7	8
Code	TRABAL	TRABEA	TRABU	TRACHEA	TRACHEL
Price	\$8.25	8.25	8.25	8.25	8.25
Size	9	10	11	12	13
Code	TRACTOMA	TRACTHYTE	TRACKAGE	TRACKLESS	TRACKWAY
Price	\$10.00	10.00	11.50	11.50	13.50
Size	14	15	16	17	18
Code	TRACTABLE	TRACTATE	TRACTION	TRACTRIX	TRACTUS
Price	\$13.50	15.00	15.00	16.50	16.50



No. 63 Solid Center Ship Auger Car Bit

8-INCH TWIST—12-INCH OVERALL

GREENLEE No. 63 Solid Center Ship Auger Car Bits have the same pattern of twist and cutting parts as our No. 23 Solid Center Ship Auger Bits. They have only one cutting edge and side lip and are without spurs. These bits are fitted with a medium coarse screw point.

The edges, stem and round are highly polished and the square is a natural forge black. These bits bore very easily and the form of the head allows a good body of metal for sharpening and wear. For car bits of longer length see page 41 illustrating our No. 58.

Standard package, ½ dozen in a box. Listed sizes in stock.

LIST PRICE PER DOZEN

Size in Sixteenths

Size	4	5	6	7	8
Code	TREACHERY	TREADFOLL	TREADING	TREADLE	TREAMILL
Price	\$8.25	8.25	8.25	8.25	8.25
Size	9	10	11	12	13
Code	TREADWHEEL	TREAGUE	TREASON	TREASURE	TREASURY
Price	\$10.00	10.00	11.50	11.50	13.50
Size	14	15	16	17	18
Code	TREATISE	TREATMENT	TREATABLE	TREATIES	TREATISOR
Price	\$13.50	15.00	15.00	16.50	16.50



No. 56 Solid Center Car Bit

THE No. 56 Greenlee Solid Center Car bit has a twist 12 inches long, and an overall length of about 17 inches. The head is of the extension lip pattern similar to our No. 22 Solid Center Auger Bit, and is fitted with a medium coarse screw point. The tool is completely polished with the exception of the square which is left a forge black.

We recommend this tool to the mechanic who requires a bit of greater range than the ordinary length of auger bit. The single spiral and the center stem gives a broad channel for clearance and elevation of chips, making this bit a very desirable tool for general wood work.

Standard package, $\frac{1}{2}$ dozen in a box. Listed sizes in stock.

LIST PRICE PER DOZEN

Size in Sixteenths

Size	4	5	6	7	8	9
Code	TAPACOLO	TAPALITE	TAPBAR	TAPBOLT	TAPBORER	TAPCINDER
Price	\$9.00	9.00	9.00	10.00	11.25	12.50
Size	10	11	12	13	14	15
Code	TAPEISM	TAPELESS	TAPELINE	TAPENER	TAPERED	TAPEFUSE
Price	\$13.75	15.00	16.25	17.50	19.00	20.50
Size	16	17	18	19	20	21
Code	TAPERING	TAPERNESS	TAPEROFF	TAPERFUSE	TAPERS	TAPERSTAND
Price	\$22.00	24.00	26.00	28.00	30.00	32.00
Size	22	23	24	26	28	32
Code	TAPESTRY	TAPETAL	TAPERWISE	TAPETLESS	TAPEWORK	TAPEWORM
Price	\$34.00	36.00	38.00	42.00	46.00	54.00



No. 58 Solid Center Ship Auger Car Bit

OUR Greenlee Solid Center Ship Auger Car Bit measures about 17 inches overall, of which 12 inches is twist. It is regularly furnished with edges, stem, and round full polished while the square is left a natural forge black.

The head of this bit is made of a single cutter with a side lip, but without spur. This permits very easy cutting and allows a good body of metal for sharpening and wear. This type of tool is very popular in car shop work where smooth hole is not required.

Standard package, $\frac{1}{2}$ dozen in a box. Listed sizes in stock.

LIST PRICE PER DOZEN

Size in Sixteenths

Size	4	5	6	7	8	9
Code	THOFT	THOGHT	THOKE	THOLANCE	THOLIPIN	THOLOBATE
Price	\$9.00	9.00	9.00	10.00	11.25	12.50
Size	10	11	12	13	14	15
Code	THOLUS	THOMAEAN	THOMOSITE	THOMBE	THOMISOID	THOMISON
Price	\$13.75	15.00	16.25	17.50	19.00	20.50
Size	16	17	18	19	20	21
Code	THOMISTIC	THOMSONITE	THONYSEAL	THONGWA	THOOD	THOPAS
Price	\$22.00	24.00	26.00	28.00	30.00	32.00
Size	22	23	24	26	28	32
Code	THORACES	THORIA	THORAL	THORIUM	THOREAU	THORITE
Price	\$34.00	36.00	38.00	42.00	46.00	54.00



Eight-inch Ship Auger Car Bit

No. 62, POLISHED TWIST

No. 62-J, JAPPANED TWIST

THE Greenlee No. 62 Ship Auger Car Bit shown above has 8-inch twist and is 12 inches overall. The demand for tools of the Ship Auger type is increasing and a stock can be recommended to any hardware or supply house which can secure the trade of mechanics from car shops or the heavier implement factories.

Those regularly furnished have medium coarse screw points which are found suitable in nearly all cases. The twists and the round portion of the shanks are polished, while the screw points and heads are bright.

As No. 62-J we furnish bits with the hollow of the twist Jappanned.

Standard package, $\frac{1}{2}$ dozen in a box. Listed sizes carried in stock.

LIST PRICE PER DOZEN

Size in Sixteenths

Size	4	5	6	7	8	9
Code	THECITIS	THECLAN	THEEDOM	THEIFORM	THEITTO	THELASIS
Price	\$10.00	10.00	10.00	10.00	10.00	10.00
Size	10	11	12	13	14	15
Code	THEMATIC	THEOGONY	THEOLOGY	THEOREM	THEORIA	THEORIST
Price	\$10.00	11.00	11.00	12.00	12.00	13.50
Size	16	17	18	20	22	24
Code	THEORIZE	THEOSIS	THERAPOD	THERAPY	THEREAT	THEREBY
Price	\$13.50	15.00	15.00	16.50	18.50	21.00



Twelve-inch Ship Auger Car Bit

No. 64, POLISHED TWIST

No. 64-J, JAPANNED TWIST

THE Greenlee Ship Auger Car Bit is made with 12-inch twist and measures about 17 inches overall. It is recommended for its strength, rigidity, easy cutting and free clearance.

The regular finish is full polished twist round and screw, but we also offer a Ship Auger Car Bit with japanned twist in the hollows known as No. 64-J. We carry in stock all sizes listed, with medium coarse screw point.

Ship Auger Car Bits with twist longer than 12-inch are made to order and sold from the list for Extra Length Ship Augers, see pages 46 and 47.

Standard package, $\frac{1}{2}$ dozen in a box. Listed sizes in stock.

LIST PRICE PER DOZEN

Size in Sixteenths

Size	4	5	6	7	8	9
Code	THACKER	THALAMUS	THALIAN	THALLATE	THALLENGE	THALLIC
Price	\$11.00	11.00	11.00	11.00	11.00	11.00
Size	10	11	12	13	14	15
Code	THALLIUM	THALLOID	THALLOME	THALLOUS	THALWEG	THANAGE
Price	\$11.00	12.00	12.00	13.00	13.00	14.50
Size	16	17	18	19	20	21
Code	THANEDOM	THANKFUL	THANNAH	THASPIUM	THATCHED	THAUGHT
Price	\$14.50	16.00	16.00	18.00	18.00	20.00
Size	22	24	26	28	30	32
Code	THEARCHY	THEATRAL	THEBAIN	THEBETH	THEBEZ	THECATE
Price	\$20.00	23.00	27.00	32.00	38.00	45.00



Ship Auger, with Screw

No. 66, POLISHED TWIST

No. 66-J, JAPANNED TWIST

SHIP Augers have a twist varying in length according to size, from 8-inch twist on the $\frac{1}{16}$ and $\frac{5}{16}$, 10-inch twist on the $\frac{3}{16}$, $\frac{7}{16}$ and $\frac{9}{16}$, to 12-inch twist on the $\frac{1}{2}$ to 1-inch, and 15-inch twist on larger augers. The overall length exceeds the twist length by about 5 inches.

No. 66 denotes a full polished tool and is carried in stock sizes $\frac{25}{16}$ -inch and smaller. Ship Augers with japanned hollows, our No. 66-J can be furnished from stock, sizes $\frac{1}{4}$ -inch to 2-inch, larger sizes being special.

Extra length Ship Augers can be supplied promptly to order. See pages 46 and 47 for list and price data.

LIST PRICE PER DOZEN

Size in Sixteenths

Size	4	5	6	7	8	9
Code	THEREFOR	THEREIN	THEREOF	THEREOUT	THERESE	THERETO
Price	\$11.00	11.00	11.00	11.00	11.00	11.00
Size	10	11	12	13	14	15
Code	THEREIAC	THERMAL	THERMAC	THERMOD	THEROID	THESICLE
Price	\$11.00	12.00	12.00	13.00	13.00	14.50
Size	16	17	18	19	20	21
Code	THESPIAN	THTICAL	THTINE	THTETSEE	THEURGY	THEWLESS
Price	\$14.50	16.00	16.00	18.00	18.00	20.00
Size	22	23	24	25	26	27
Code	THICKETED	THICKISH	THICKLY	THICKSET	THIEFLY	THIENYL
Price	\$20.00	23.00	23.00	27.00	27.00	32.00
Size	28	29	30	31	32	34
Code	THIEVERY	THIEVISH	THIMBLE	THINGMAN	THINKER	THINKSO
Price	\$32.00	38.00	38.00	45.00	45.00	57.00
Size	36	38	40	42	44	48
Code	THINNEST	THINNISH	THIONIC	THIONINE	THONYL	THIRLED
Price	\$72.00	86.00	101.00	115.00	130.00	158.00

Sizes $\frac{25}{16}$ -inch and larger classified as Extra Large Ship Augers.



Ship Auger, without Screw

No. 68, POLISHED TWIST

No. 68-J, JAPANNED TWIST

NO POINT Ship Augers have a twist varying in length according to size, from 8-inch twist on the $\frac{1}{16}$ and $\frac{5}{16}$, 10-inch twist on the $\frac{3}{16}$, $\frac{7}{16}$ and $\frac{9}{16}$, 12-inch twist on the $\frac{1}{2}$ to 1-inch and 15-inch twist on larger augers. The overall length exceeds the twist length by about 5 inches.

No. 68 denotes a full polished tool and is carried in stock sizes $\frac{25}{16}$ -inch and smaller. Japanned twist is designated by our No. 68-J and can be furnished from stock sizes $\frac{1}{4}$ -inch to 2-inch, larger sizes being special.

Extra length Ship Augers without screw can be supplied promptly to order. See pages 46 and 47 for list and price data.

LIST PRICE PER DOZEN

Size in Sixteenths

Size	4	5	6	7	8
Code	TETANIC	TETANILLA	TETANINE	TETANOID	TETANUS
Price	\$13.20	13.20	13.20	13.20	13.20
Size	9	10	11	12	13
Code	TETARTO	TETHERED	TETHYDAN	TETRACAT	TETRADIC
Price	\$13.20	13.20	14.40	14.40	15.60
Size	14	15	16	17	18
Code	TETRADON	TETRAGYN	TETRAGRAM	TETRANT	TETRANID
Price	\$15.60	17.40	17.40	19.20	19.20
Size	19	20	21	22	23
Code	TETRAPIA	TETRAPOD	TETRARCH	TETRAXILE	TETRAXON
Price	\$21.60	21.60	24.00	24.00	27.60
Size	24	25	26	28	30
Code	TETRAZONE	TETRICITY	TETRICIOUS	TETTEROUS	TETROLIC
Price	\$27.60	32.40	32.40	38.40	45.60
Size	32	34	36	40	48
Code	TETTISH	TENDRESSE	TENEBOUS	TENDINESS	TENDRILED
Price	\$54.00	68.40	86.40	121.20	189.60

Sizes $\frac{25}{16}$ -inch and larger classified as Extra Large Ship Augers.



LIST OF No. 66X EXTRA LENGTH SHIP AUGERS WITH SCREW

Price per Dozen Size in Sixteenths

Size	Code	18-inch Twist	20-inch Twist	22-inch Twist	24-inch Twist	Each Extra 6" Twist
8	THRACIAN	\$ 15.00	\$ 18.00	\$ 21.00		
9	THRALDOM	16.50	19.80	23.10		
10	THRANITE	18.00	21.30	24.60	\$ 27.90	
11	THRAPPLE	19.50	23.10	26.70	30.30	
12	THRASHEL	21.00	24.60	28.20	31.80	\$ 10.80
13	THRASHT	22.80	26.70	30.60	34.50	11.70
14	THRATCH	24.60	28.50	32.40	36.30	11.70
15	THREADY	26.40	30.60	34.80	39.00	12.60
16	THREATEN	28.20	32.40	36.60	40.80	12.60
17	THRENODY	30.00	34.50	39.00	43.50	13.50
18	THRESHER	31.80	36.30	40.80	45.30	13.50
19	THRESTLE	33.60	38.40	43.20	48.00	14.40
20	THRIBBLE	35.40	40.20	45.00	49.80	14.40
21	THRIFTY	37.80	42.90	48.00	53.10	15.30
22	THRILLS	40.20	45.30	50.40	55.50	15.30
23	THRINAX	42.60	48.00	53.40	58.80	16.20
24	THRIPPLE	45.00	50.40	55.80	61.20	16.20
25	THRISSEL	48.00	54.00	60.00	66.00	18.00
26	THRIVED	51.00	57.00	63.00	69.00	18.00
27	THRIVING	54.00	60.60	67.20	73.80	19.80
28	THROATS	57.00	63.60	70.20	76.80	19.80
29	THROBBED	60.00	67.20	74.40	81.60	21.60
30	THRODDEN	63.00	70.20	77.40	84.60	21.60
31	THROMBUS	66.00	73.80	81.60	89.40	23.40
32	THRONAL	69.00	76.80	84.60	92.40	23.40
33	THRONGED	84.00	92.40	100.80	109.20	25.20
34	THROSTLE	84.00	92.40	100.80	109.20	25.20
35	THROWER	93.00	102.30	111.60	120.90	27.90
36	THRUSER	102.00	112.20	122.40	132.60	30.60

No. 66X Extra Length Ship Augers with Screw

EXTRA length Ship Augers are regularly made with japanned hollows and a length overall about six inches in excess of twist length. If longer shanks than regular are desired, overall dimension should be clearly specified in ordering. For Ship Augers with shanks longer than regular, but not over 18 inches, add \$7.50 per dozen to regular list.

The list may be extended for any length of twist by adding the increment shown in the last column. To obtain the list for larger sizes than shown, add \$9.00 per dozen for each extra 16th of diameter over $\frac{3}{16}$ in 18-inch twist. For longer twist of these larger sizes add 10% of the 18-inch twist for each extra 2 inches of twist.

Extra length Ship Augers are not carried in stock and list prices as given apply only on quantities of one dozen or more. Smaller lots cost more to manufacture and the following schedule of quantity extras must be used—

1 of a size.....	List plus 100 %
2 of a size.....	List plus 75 %
3 of a size.....	List plus 66 $\frac{2}{3}$ %
4 or 5 of a size.....	List plus 50 %
6 to 11 of a size.....	List plus 33 $\frac{1}{3}$ %

List prices on opposite page and conditions noted above also apply on extra length No. 59 Solid Center Ship Augers with screw.

No. 68X EXTRA LENGTH SHIP AUGERS WITHOUT SCREW

These Ship Augers are sold from list as given on opposite page advanced 20%. Stock is not carried of extra length Ship Augers without screw and for quantities of less than one dozen, above extras must be applied.

Add word SCREWLESS to code words to designate without screw point.



No. 59 Solid Center Ship Auger

IN COMMON with other tools of the Ship Auger type, Solid Center Ship Augers have a length of twist varying with their diameter. The $\frac{1}{16}$ and $\frac{5}{16}$ have 8-inch twist; the $\frac{3}{16}$, $\frac{7}{16}$ and $\frac{9}{16}$, 10-inch twist; the $\frac{1}{2}$ to 1-inch, 12-inch twist and those over 1-inch, 15-inch twist. The shank adds about 5 inches to this length.

The head of this auger is made of a single cutter with a side lip, but has no spur. This permits very easy cutting and allows a good body of metal for sharpening and wear.

The regular finish is full polished twist, round and screw.

Listed sizes carried in stock.

LIST PRICE PER DOZEN

Size in Sixteenths

Size	4	5	6	7	8
Code	THORNAPPLE	THORNBACK	THORNBILL	THORNBIRD	THORNBROOM
Price	\$7.50	7.50	7.50	7.50	7.50
Size	9	10	11	12	13
Code	THORNBUSH	THORNED	THORNHEAD	THORNHOG	THORNHOUSE
Price	\$9.00	9.00	10.50	10.50	12.00
Size	14	15	16	17	18
Code	THORNIER	THORNLESS	THORNSET	THORNSTONE	THORNSWINE
Price	\$12.00	13.50	13.50	15.00	15.00
Size	19	20	21	22	24
Code	THORNTAIL	THOROUGH	THORPE	THOTHER	THOUGHTS
Price	\$16.50	16.50	18.00	18.00	21.00



No. 92 Derrick Auger

GREENLEE No. 92 Derrick Augers have twist of the solid center type 18 inches long, with a head having single cutting edge as on Ship Augers. The square is made about 12 inches long having the end threaded and fitted with nut. Overall length is 36 inches including 6 inches of round.

The twist, stem, and round is completely polished, the square being left a forged black. They are fitted with medium feed screw point which allows them to bore freely to the maximum depth.

There is some demand for solid center twist Derrick Augers with double cutter head, flat cut pattern. While we do not carry tools of this type in stock, we are in position to supply same. In lots of one dozen of a size the list prices given below apply, and smaller lots would be subject to our schedule of quantity extras as referred to on page 47.

Sizes $1\frac{1}{4}$ -inch and smaller are regularly packed a half dozen in a bundle, larger sizes packed one-fourth dozen. Sizes listed carried in stock.

LIST PRICE PER DOZEN

Size	$\frac{1}{2}$ "	$\frac{5}{8}$ "	$\frac{3}{4}$ "	$\frac{7}{8}$ "	1"
Code	TENPERING	TENPIN	TENSELY	TENSILE	TENS ON
Price	\$22.50	25.50	28.50	32.10	35.70
Size	$1\frac{1}{8}$ "	$1\frac{1}{4}$ "	$1\frac{1}{2}$ "	$1\frac{3}{4}$ "	2"
Code	TENSITY	TENSIVE	TENSOME	TENSTRIKE	TENSURE
Price	\$39.30	42.90	52.50	64.50	76.50



No. 84 Boring Machine Auger

GREENLEE Boring Machine Augers, No. 84, are of the double twist type, flat cut head and fitted with medium coarse screw point. The 1/2-inch round shank has pinhole and recess and will fit all makes of standard hand boring machines.

These augers are made with 7 1/2-inch twist, 11-inch overall length. Sizes 1 1/2-inch and smaller supplied with full polished twist and larger sizes have japanned hollows.

Standard package sizes 1 1/2-inch and smaller, 1/2 dozen in a box; larger sizes 1/4 dozen in a box. Sizes as listed carried in stock. Tools of larger diameters, or longer lengths made to order—prices quoted on application.

LIST PRICE PER DOZEN

Size	3/8"	1/2"	5/8"	3/4"	7/8"	1"
Code	TINBATH	TINBOUND	TINCLAD	TINCTION	TINFLOOR	TINFOIL
Price	\$10.00	10.00	10.00	11.00	13.00	15.00
Size	1 1/8"	1 1/4"	1 3/8"	1 1/2"	1 3/4"	2"
Code	TINFRAME	TINGLAZE	TINGLISH	TINKERED	TINKLING	TINNITUS
Price	\$17.00	19.00	21.00	24.00	28.00	32.00



No. 86 Solid Center Boring Machine Auger

SOLID Center Boring Machine Augers No. 86 have a twist length of $7\frac{1}{2}$ inches, $1\frac{3}{4}$ -inch length of shaft, $\frac{1}{2} \times 1\frac{3}{4}$ shank, and a complete length of about 11 inches. The shank has pinhole and recess and will fit all makes of standard hand boring machines.

These augers have double cutter head of the flat cut pattern and are fitted with a medium coarse screw point. All sizes are fully polished.

Sizes $1\frac{1}{2}$ -inch and smaller packed $\frac{1}{2}$ dozen in a box; larger sizes, $\frac{1}{4}$ dozen in box. Sizes listed carried in stock.

LIST PRICE PER DOZEN

Size	$\frac{1}{2}$ "	$\frac{3}{4}$ "	$\frac{7}{8}$ "	1"	$1\frac{1}{8}$ "
Code	TIPPING	TIPCAR	TIPCART	TIPSLED	TIPTRUCK
Price	\$8.25	11.00	13.00	15.00	17.00
Size	$1\frac{1}{4}$ "	$1\frac{3}{8}$ "	$1\frac{1}{2}$ "	$1\frac{3}{4}$ "	2"
Code	TIPFOOT	TIPSTOCK	TIPTILTED	TIPHIA	TIPPAH
Price	\$19.00	21.00	24.00	28.00	32.00



No. 88 Nut Auger

OUR No. 88 Greenlee Nut Auger is of the double twist pattern, flat cut head, and fitted with a medium coarse screw point. Sizes $1\frac{1}{2}$ -inch and smaller have full polished twist, while on larger sizes, hollows are japanned.

These Nut Augers have a length of twist varying from 6-inch on the smallest to $9\frac{1}{2}$ -inch on the $3\frac{1}{2}$ -inch and larger sizes. In the same way the overall length varies from 14 to 20 inches. Threaded end is fitted with a semi-finished hexagon nut.

Regularly packed $\frac{1}{2}$ dozen in a box, sizes $1\frac{1}{2}$ -inch and smaller; $1\frac{3}{4}$ and 2-inch, $\frac{1}{4}$ dozen in box; larger sizes one-sixth dozen in a box. Listed sizes in stock.

LIST PRICE PER DOZEN

Size	$\frac{3}{8}$ "	$\frac{1}{2}$ "	$\frac{5}{8}$ "	$\frac{3}{4}$ "	$\frac{7}{8}$ "	1"
Code	TIRADES	TIRASSE	TIRELESS	TIRELING	TIRELIRE	TIREMENT
Price	\$10.00	10.00	10.00	11.00	13.00	15.00
Size	$1\frac{1}{8}$ "	$1\frac{1}{4}$ "	$1\frac{3}{8}$ "	$1\frac{1}{2}$ "	$1\frac{3}{4}$ "	2"
Code	TIRESOME	TIRONIAN	TIRONISM	TIRRIVEE	TITANESS	TITANIC
Price	\$17.00	19.00	21.00	24.00	28.00	32.00

EXTRA LARGE SIZES

Size	$2\frac{1}{4}$ "	$2\frac{1}{2}$ "	$2\frac{3}{4}$ "	3"	$3\frac{1}{2}$ "	4"
Code	TITANOUS	TITHABLE	TITHING	TITHONIC	TITIVATE	TITILARK
Price	\$42.00	52.00	72.00	92.00	152.00	212.00



No. 90 Solid Center Nut Auger

THE Nut Auger was a tool primarily designed for rough, heavy boring where the work was beyond the range of an auger bit in a brace, either because of depth or size or the need of driving power. These tools are made with shanks terminating in heavy squares with threaded tip. Wooden handles may be fitted to the squares and are held in place by a nut on the threaded section.

This auger has the distinctive feature of a solid stem or center extending the length of the bit, with the twist formed by a ledge winding spirally around the stem. The head has two cutters of the flat cut type, having side lips but without spurs.

This bit is carefully formed throughout. The screw point is cut clearly and deeply. The square portion of shank is full formed and the thread is well cut. We fit each with a semi-finished hexagon steel nut. The twist, screw and round are fully polished, while the square is a forge black.

Listed sizes in stock. Standard package 1½-inch and smaller, ½ dozen in a box; larger sizes, ¼ dozen in a box.

LIST PRICE PER DOZEN

Size	¾"	1½"	5/8"	¾"	7/8"	1"
Code	TOOKUL	TOONDAH	TOOSHQUA	TOOTER	TOOTHED	TOOTHFUL
Price	\$8.25	8.25	9.50	10.75	12.00	13.25

Size	1½"	1¼"	1⅜"	1½"	1¾"	2"
Code	TOOTHING	TOOTHKEY	TOOTHNET	TOOTHSAK	TOOTHING	TOOZLE
Price	\$15.00	17.00	19.00	22.00	26.00	30.00



No. 96 Ring Auger

OUR No. 96 Ring Augers are of the double twist type, and have flat cut head with heavy side lips for long service. These augers are fitted with good sized screw point, coarse threads, clearly and deeply cut, which in connection with sharply pitched cutting edges, enable them to feed easily.

The twist length varies from 6-inch on the smallest sizes to 8-inch on the largest. In the same way, the overall dimension varies from 20 to 26 inches. Sizes 1½-inch and smaller have polished twist while larger sizes have japanned hollows.

Listed sizes carried in stock.. For augers over 2-inch in diameter, refer to our No. 97 on opposite page.

LIST PRICE PER DOZEN

Size	¾"	1"	1½"	2"	2½"
Code	TOLLLOL	TOLLMAN	TOLURIC	TOLYENE	TOMALLEY
Price	\$13.50	13.50	13.50	14.75	16.00
Size	1"	1¼"	1½"	1¾"	2"
Code	TOMBRAT	TOMBOYS	TOMFOOL	TOMTOMS	TONALIST
Price	\$17.25	21.00	26.00	30.00	34.00



No. 97 Rafting Auger

THE No. 97 Greenlee Rafting Auger is of the double twist type, with head of the flat cut pattern. It is fitted with a large screw point of medium pitch. All sizes are made with 12-inch twist, about 15 inches of round, and an overall length of 30 inches.

Sizes 1 $\frac{1}{4}$ -inch and 1 $\frac{1}{2}$ -inch have polished twist, edges and one-half the round is finished. Augers 1 $\frac{3}{4}$ -inch and larger have jappanned twist. They are fitted with rings in proportion to size of auger.

We do not box Rafting Augers but pack 2-inch and smaller sizes $\frac{1}{4}$ dozen in a bundle, larger sizes one-sixth dozen bundled. Sizes listed carried in stock.

LIST PRICE PER DOZEN

Size	1 $\frac{1}{4}$ "	1 $\frac{1}{2}$ "	1 $\frac{3}{4}$ "	2"	2 $\frac{1}{4}$ "
Code	TOCLEVE	TOCOROCO	TOCSINS	TODBOAT	TODDLING
Price	\$32.00	40.00	48.00	56.00	66.00
Size	2 $\frac{1}{2}$ "	2 $\frac{3}{4}$ "	3"	3 $\frac{1}{2}$ "	4"
Code	TODDYMAN	TOCDRIVE	TOEDROP	TOEPIECE	TOFTMAN
Price	\$76.00	90.00	105.00	180.00	240.00



No. 702 "S" COUNTERSINK



No. 703 ROSE COUNTERSINK



No. 701 FLAT RELIEVED COUNTERSINK



No. 704 FLAT COUNTERSINK

Brace Countersinks

OUR No. 702 "S" Countersink is the most popular of the above types and will countersink up to $\frac{3}{4}$ -inch. The round and outside of the cutting bevel are fully polished while the inside of the bevel and the square are left a forge black. The cutting parts have a good clearance, proper heat treatment, and are suitable for use in all kinds of wood as well as soft metals. This type regularly is made with $4\frac{1}{4}$ -inch overall length.

The No. 701, 703 and 704 patterns will countersink up to $\frac{1}{2}$ -inch in diameter. These types are fully polished with the exception of the square, which is a forge black, and the overall length is $4\frac{1}{4}$ inches. They are suitable for all kinds of wood, the No. 703 Rose Countersink being especially adapted for soft metals.

All Brace Countersinks packed one dozen in a box.

LIST PRICE PER DOZEN

No.	Code	Price
701	TOPARCHY	\$2.50
702	TOPAZINE	3.00
703	TOPHUS	2.75
704	TOPIARY	1.50



711 SQUARE REAMER



712 HALF ROUND REAMER

Brace Reamers

THE Greenlee No. 711 Square Reamer Tapers from $\frac{1}{8}$ -inch to $\frac{3}{8}$, $\frac{1}{2}$ and $\frac{3}{4}$ -inch and is made with overall length of 5, 6 and 8 inches respectively. It is full polished with the exception of the square which is left a forge black. The size is determined by measuring across the diagonal at the largest part of the tool.

The No. 712 Greenlee Half Round Reamer has a complete length of 6 inches and tapers from $\frac{1}{8}$ to $\frac{1}{2}$ -inch. It is fully polished with the exception of the square which is a forge black.

Brace Reamers are packed one dozen in a box. Sizes listed carried in stock.

LIST PRICE PER DOZEN

No.	Code	Price
711— $\frac{3}{8}$ "	TOPKNOT	\$2.25
711— $\frac{1}{2}$ "	TOPLOFTY	2.50
711— $\frac{3}{4}$ "	TOPMAST	5.00
712— $\frac{1}{2}$ "	TOPOLOGY	2.50



Screw Driver Bits

THE No. 723 Greenlee Standard Screw Driver Bits are made in four sizes, $\frac{1}{4}$ -inch for No. 9 wood screws and smaller, $\frac{5}{16}$ -inch for Nos. 10, 11, and 12, $\frac{3}{8}$ -inch for Nos. 13 and 14, and $\frac{1}{2}$ -inch for No. 16 and larger. The overall length varies from $4\frac{1}{2}$ inches to $5\frac{1}{2}$ inches. The bit is completely polished with the exception of the square which is a forge black.

Standard package, one dozen in a box.

LIST PRICE PER DOZEN

Size	$\frac{1}{4}$ "	$\frac{5}{16}$ "	$\frac{3}{8}$ "	$\frac{1}{2}$ "	Assorted
Code	TOREADOR	TOREUTIC	TORGOGCH	TORILLO	TORINESE
Price	\$1.50	1.50	1.60	1.80	1.60

Our No. 721 GREENLEE CABINET SCREW DRIVER BITS are made with two overall lengths, 6 and 8-inch, width of point $\frac{5}{16}$ -inch. They are used where the standard bit will not give the desired reach.

Standard package, one dozen in a box.

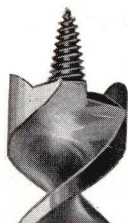
LIST PRICE PER DOZEN

Size	6-inch	8-inch
Code	TORBITE	TORCASA
Price	\$2.00	\$2.25

BIT HEADS



DOUBLE SPUR



EXTENSION LIP



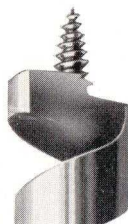
SOLID CENTER



SINGLE TWIST



UNISPUR



SHIP AUGER
WITH SCREW

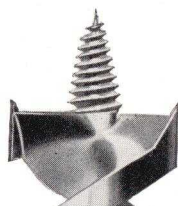


SHIP AUGER
NO SCREW



FLAT CUT

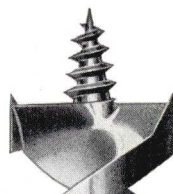
Above we show enlarged illustrations of heads of Augers and Auger Bits. These bring out more clearly the points, spurs and types of cutting edges.



DOUBLE SCREW



COMPARISON



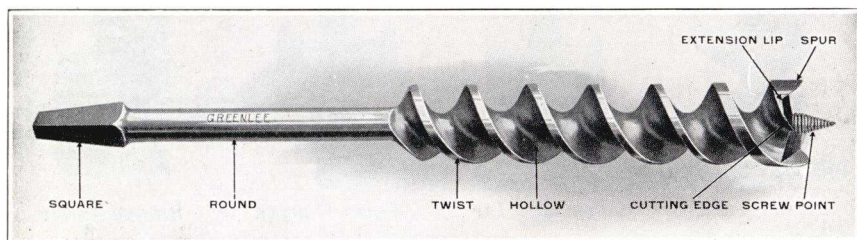
SINGLE SCREW

A single screw has only one thread or spiral from the tip of the point, while the double screw has two threads starting from opposite sides at the tip and running parallel down to the base. One complete thread may be eliminated from a double screw point, thus making it into a single screw, but without changing the pitch of the thread.

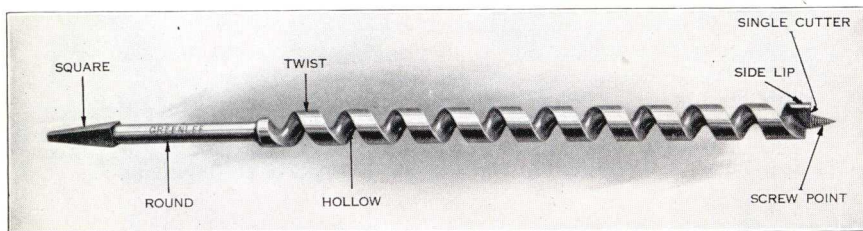
A No. 12 double screw and a No. 12 single screw bores into the wood at exactly the same speed, providing the wood is such that bits follow the natural feed of the points. Yet the former will register with a No. 24 screw pitch gauge while the latter agrees with a No. 12.

Single thread screws are recommended for use when there is a tendency to fill up the threads, as in boring pitchy wood. Double thread screws are necessary on smaller sized bits where the amount of stock in the point will not permit the deeper threads essential to a single screw.

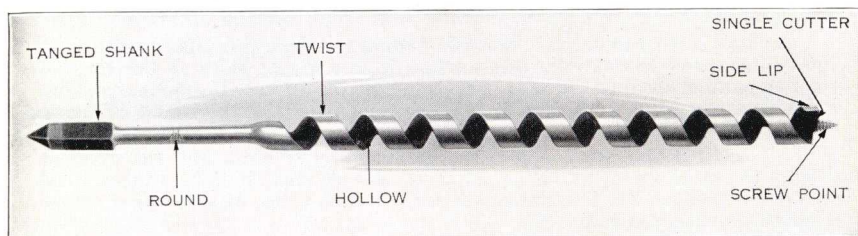
Parts of Bits



EXTENSION LIP AUGER BIT



SHIP AUGER CAR BIT



SHIP AUGER

Standard Lengths of Auger Bits

FOR ready reference we are giving below the twist and overall dimensions of standard auger bits, Nos. 12, 13, 17, 20, 21, 22, 23, 25, 28, 31, 35 and 39. Overall dimension as given applies to distance from cutting edge to end of shank and does not include screw point.

Size 16th's	Twist	Overall
3	3"	7"
4	3 $\frac{3}{8}$ "	7 $\frac{1}{2}$ "
5	3 $\frac{1}{2}$ "	7 $\frac{5}{8}$ "
6	3 $\frac{5}{8}$ "	7 $\frac{3}{4}$ "
7	3 $\frac{3}{4}$ "	7 $\frac{7}{8}$ "
8	3 $\frac{7}{8}$ "	8"
9	3 $\frac{7}{8}$ "	8 $\frac{1}{8}$ "
10	4"	8 $\frac{1}{4}$ "
11	4 $\frac{1}{8}$ "	8 $\frac{3}{8}$ "
12	4 $\frac{1}{4}$ "	8 $\frac{1}{2}$ "
13	4 $\frac{3}{8}$ "	8 $\frac{5}{8}$ "
14	4 $\frac{1}{2}$ "	8 $\frac{3}{4}$ "
15	4 $\frac{5}{8}$ "	8 $\frac{7}{8}$ "
16	4 $\frac{3}{4}$ "	9"
17	4 $\frac{7}{8}$ "	9 $\frac{1}{4}$ "
18	4 $\frac{7}{8}$ "	9 $\frac{1}{4}$ "
19	4 $\frac{7}{8}$ "	9 $\frac{1}{4}$ "
20	4 $\frac{7}{8}$ "	9 $\frac{1}{4}$ "
21 and above	5"	9 $\frac{1}{2}$ "

In manufacturing auger bits, the shanking, plating and twisting is done between a pair of dies under a Bradley hammer and it is not possible to strictly adhere to above specifications. Therefore slight variations will be found.

Lengths of Dowel Bits, Car Bits and all forms of augers have been given on pages illustrating and listing individual items.

Weights of Auger Bits

Per Dozen—In Paper Boxes

Size	Double Twist	Solid Center	Single Twist	Dowel Bits	Size	Brace Drills
$\frac{3}{16}$	$\frac{3}{4}$ lb.	$\frac{3}{4}$ lb.	$\frac{3}{4}$ lb.	$\frac{1}{2}$ lb.	$\frac{3}{32}$	$\frac{3}{8}$ lb.
$\frac{4}{16}$	1 lb.	1 lb.	1 lb.	$\frac{3}{4}$ lb.	$\frac{4}{32}$	$\frac{1}{2}$ lb.
$\frac{5}{16}$	$1\frac{1}{4}$ lb.	$1\frac{1}{4}$ lb.	$1\frac{1}{4}$ lb.	1 lb.	$\frac{5}{32}$	$\frac{3}{4}$ lb.
$\frac{6}{16}$	$1\frac{1}{2}$ lb.	$1\frac{1}{2}$ lb.	$1\frac{1}{2}$ lb.	$1\frac{1}{8}$ lb.	$\frac{6}{32}$	$\frac{3}{4}$ lb.
$\frac{7}{16}$	$1\frac{3}{4}$ lb.	$1\frac{3}{4}$ lb.	$1\frac{3}{4}$ lb.	$1\frac{1}{4}$ lb.	$\frac{7}{32}$	$\frac{3}{4}$ lb.
$\frac{8}{16}$	2 lb.	2 lb.	2 lb.	$1\frac{1}{4}$ lb.	$\frac{8}{32}$	$\frac{7}{8}$ lb.
$\frac{9}{16}$	$2\frac{1}{4}$ lb.	$2\frac{1}{4}$ lb.	$2\frac{1}{2}$ lb.	$1\frac{1}{2}$ lb.	$\frac{9}{32}$	1 lb.
$\frac{10}{16}$	$2\frac{1}{2}$ lb.	$2\frac{1}{2}$ lb.	3 lb.	$1\frac{1}{2}$ lb.	$\frac{10}{32}$	$1\frac{1}{4}$ lb.
$\frac{11}{16}$	3 lb.	3 lb.	$3\frac{1}{2}$ lb.	$1\frac{3}{4}$ lb.	$\frac{11}{32}$	$1\frac{1}{2}$ lb.
$\frac{12}{16}$	$3\frac{1}{2}$ lb.	$3\frac{1}{2}$ lb.	$3\frac{3}{4}$ lb.	2 lb.	$\frac{12}{32}$	$1\frac{3}{4}$ lb.
$\frac{13}{16}$	$3\frac{3}{4}$ lb.	$3\frac{3}{4}$ lb.	$4\frac{1}{2}$ lb.	2 lb.	$\frac{13}{32}$	2 lb.
$\frac{14}{16}$	4 lb.	4 lb.	$4\frac{3}{4}$ lb.	$2\frac{1}{4}$ lb.	$\frac{14}{32}$	2 lb.
$\frac{15}{16}$	$4\frac{1}{2}$ lb.	$4\frac{1}{2}$ lb.	$5\frac{1}{2}$ lb.	$2\frac{1}{2}$ lb.	$\frac{15}{32}$	$2\frac{1}{2}$ lb.
$\frac{16}{16}$	$4\frac{3}{4}$ lb.	$4\frac{3}{4}$ lb.	$5\frac{3}{4}$ lb.	$2\frac{1}{2}$ lb.	$\frac{16}{32}$	$2\frac{1}{2}$ lb.
$\frac{17}{16}$	6 lb.	6 lb.	$6\frac{1}{2}$ lb.		$\frac{17}{32}$	$2\frac{3}{4}$ lb.
$\frac{18}{16}$	$6\frac{1}{2}$ lb.	$6\frac{1}{2}$ lb.	$7\frac{1}{4}$ lb.		$\frac{18}{32}$	3 lb.
$\frac{20}{16}$	$7\frac{1}{4}$ lb.	$7\frac{1}{4}$ lb.	$8\frac{1}{4}$ lb.		$\frac{20}{32}$	$3\frac{1}{2}$ lb.
$\frac{24}{16}$	$8\frac{1}{2}$ lb.	$8\frac{1}{2}$ lb.	$10\frac{3}{4}$ lb.		$\frac{24}{32}$	$5\frac{1}{4}$ lb.

Weights of Auger Bit Sets

Sets	In Paper Boxes			In Handy Box	In Hinge Box	In Roll
$11\frac{1}{4}$ Qts.	1 lb.	1 lb.	1 lb.	2 lb.	2 lb.	$1\frac{1}{4}$ lb.
14 Qts.	$1\frac{1}{4}$ lb.	$1\frac{1}{4}$ lb.	$1\frac{1}{4}$ lb.	$2\frac{1}{4}$ lb.	$2\frac{1}{4}$ lb.	$1\frac{1}{2}$ lb.
$18\frac{3}{4}$ Qts.	$1\frac{3}{4}$ lb.	$1\frac{3}{4}$ lb.	$1\frac{3}{4}$ lb.	3 lb.	$2\frac{1}{2}$ lb.	2 lb.
$20\frac{1}{2}$ Qts.	$1\frac{3}{4}$ lb.	$1\frac{3}{4}$ lb.	$1\frac{3}{4}$ lb.	3 lb.	$2\frac{1}{2}$ lb.	2 lb.
$32\frac{1}{2}$ Qts.	$2\frac{3}{4}$ lb.	$2\frac{3}{4}$ lb.	$2\frac{3}{4}$ lb.	$4\frac{1}{4}$ lb.	$3\frac{3}{4}$ lb.	3 lb.

Weights of Expansive Bits

No.	3	4	5	6	7	8
Weight	$3\frac{1}{4}$ lb.	$7\frac{1}{2}$ lb.	5 lb.	8 lb.	5 lb.	8 lb.

Weights of Bit Extensions

No.	900	12"	15"	18"	21"	24"	30"
Weight		9 lb.	11 lb.	13 lb.	15 lb.	$16\frac{1}{2}$ lb.	$20\frac{1}{2}$ lb.
No.	925			18"		24"	
Weight				$22\frac{1}{2}$ lb.		28 lb.	

Weights of Car Bits and Augers

WEIGHT PER DOZEN IN POUNDS

Size in Sixteenths

No.	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	20	22	24	28	32
16	..	..	..	..	..	..	2 ³ / ₄	3 ¹ / ₄	3 ¹ / ₂	4 ¹ / ₄	..	..	5 ¹ / ₄	..	..	..	..	..	..	..
39	1	1 ¹ / ₄	1 ¹ / ₂	1 ³ / ₄	2	2 ³ / ₄	3 ¹ / ₄	3 ³ / ₄	4	5	5 ¹ / ₂	6 ¹ / ₄	6 ¹ / ₂	8 ¹ / ₄	8 ¹ / ₂	..	..	..	..	..
44	..	..	..	..	..	2	2	2	2 ¹ / ₄	2 ¹ / ₂	2 ³ / ₄	3	3 ¹ / ₄	4	4 ¹ / ₂	4 ³ / ₄	5	5 ¹ / ₄	6	8
50	1 ¹ / ₄	1 ¹ / ₂	1 ³ / ₄	2	2 ¹ / ₄	3	3 ¹ / ₄	3 ³ / ₄	4 ¹ / ₄	5	5 ¹ / ₂	6	6 ¹ / ₄	7 ¹ / ₄	9 ¹ / ₂	10	..	..	..	..
54 & 55	1 ³ / ₄	2 ³ / ₄	3	3 ¹ / ₄	3 ³ / ₄	5	5 ¹ / ₂	6	6 ³ / ₄	7 ¹ / ₂	9 ¹ / ₄	9 ¹ / ₂	10 ¹ / ₂	12	12 ¹ / ₄	14	18 ¹ / ₂	..	..	..
56 & 58	2	2 ¹ / ₂	2 ³ / ₄	3 ¹ / ₄	4	5	5 ¹ / ₂	6	6 ³ / ₄	7 ¹ / ₂	8 ¹ / ₂	9	9 ¹ / ₂	11	12	14 ¹ / ₂	15 ¹ / ₂	16	18	22
53 & 63	1 ³ / ₄	2	2 ¹ / ₄	2 ³ / ₄	3	3 ¹ / ₄	3 ³ / ₄	4 ¹ / ₄	4 ³ / ₄	5	5 ¹ / ₂	6 ¹ / ₄	7	..	..	..	..	..	..	..
59	1 ³ / ₄	2 ³ / ₄	2 ³ / ₄	3 ¹ / ₄	4	5	5 ¹ / ₂	7	8	8 ¹ / ₂	9 ¹ / ₂	9 ¹ / ₂	10 ¹ / ₂	13 ¹ / ₄	15	17	18 ¹ / ₄	19	21	23
62	1 ³ / ₄	1 ³ / ₄	2 ³ / ₄	3 ¹ / ₄	4	5	5 ¹ / ₂	5 ³ / ₄	7 ¹ / ₄	8 ¹ / ₂	9 ¹ / ₄	10	11 ¹ / ₄	11 ¹ / ₂	14 ¹ / ₄	14 ³ / ₄	14 ³ / ₄	18 ¹ / ₄	..	..
64	2	2 ¹ / ₂	3 ¹ / ₄	3 ³ / ₄	4 ³ / ₄	6	6 ¹ / ₂	6 ³ / ₄	9 ¹ / ₄	10 ¹ / ₂	12 ³ / ₄	14 ³ / ₄	16 ³ / ₄	17 ¹ / ₂	19 ¹ / ₂	21 ¹ / ₂	23	31	35	48
66 & 68	1 ³ / ₄	2 ³ / ₄	3	4	4 ³ / ₄	6 ¹ / ₂	7	8	9 ¹ / ₂	11 ¹ / ₂	13 ³ / ₄	14 ³ / ₄	17 ¹ / ₂	22 ³ / ₄	25	28	34	39	45	54

No.	3"	1"	5"	3"	7"	1"	1 ¹ / ₄ "	1 ¹ / ₂ "	1 ³ / ₄ "	2"	2 ¹ / ₄ "	2 ¹ / ₂ "	2 ³ / ₄ "	3"	3 ¹ / ₄ "	3 ¹ / ₂ "	4"
84	3 ¹ / ₂	4 ¹ / ₂	5 ¹ / ₂	6 ³ / ₄	7 ¹ / ₄	9	10 ¹ / ₂	13 ¹ / ₂	14	18 ¹ / ₄	..	..	..	..	..	..	..
86	..	..	..	6 ¹ / ₂	7 ¹ / ₄	7 ¹ / ₂	10 ¹ / ₂	11	12	13	..	..	..	..	..	..	..
88	3 ³ / ₄	4 ³ / ₄	5	6	6 ³ / ₄	7 ¹ / ₂	10 ¹ / ₂	15	21	23	33	37	46	53	62	68	87
90	..	4 ¹ / ₂	5	6	7	7 ¹ / ₂	11 ¹ / ₄	14 ³ / ₄	17	23	..	..	..	..	..	..	..
96	6 ¹ / ₂	8 ¹ / ₂	9 ³ / ₄	13 ¹ / ₂	13 ³ / ₄	18	31	34	39	41	..	..	..	..	..	..	..
97	..	..	..	..	..	..	38	45	50	54	58	66	68	78	..	125	129
92	..	11	15	18	21	22	33	37	44	56	..	..	..	..	..	..	..

Weights of Brace Countersinks, Reamers and Screw Driver Bits

701	701	703	704	711			712	721		723			
1 ¹ / ₄	1 ¹ / ₄	1 ¹ / ₄	1 ¹ / ₄	3 ³ / _{8"} 1 ¹ / ₄	1 ¹ / _{2"}	3 ³ / _{2"}	1 ¹ / ₄	6"	8"	1 ¹ / _{4"} 3 ⁴ / ₄	5 ⁵ / _{16"} 1	3 ³ / _{8"} 1 ¹ / ₂	1 ¹ / _{2"} 1 ³ / ₄

Weights of Chisels and Knives

WEIGHT PER DOZEN IN POUNDS

No.	1/8"	1/4"	3/8"	1/2"	5/8"	3/4"	7/8"	1"	1 1/4"	1 1/2"	1 3/4"	2"
200	3	3	3	3 1/4	3 1/2	3 3/4	4	4 1/2	5 1/4	6	6 1/2	7 1/4
220	3 1/4	3 1/4	3 1/4	3 1/2	3 3/4	4	4 1/4	5	6	6 3/4	8	9 1/2
230	3 1/2	3 1/2	3 3/4	4 1/4	5 1/4	6	6 1/4	8	8 1/4	9	12	13
261	.....	7 1/2	7 3/4	8 1/4	10 1/2	11	11 1/2	13 1/2	16	18	22	24
295	.....	.....	.....	.....	.....	13	19	.....	.....	.....	.....	.....
330	4	4	4 1/4	4 1/2	6	6 1/2	7	9	11	12	13 1/2	15
390	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	12
400	2 1/2	2 1/2	2 3/4	3	3 1/4	3 1/2	4	4 1/2	5 1/4	5 1/2	6	7 1/2
430	3 1/4	3 1/4	3 1/2	3 3/4	4 1/2	4 3/4	5	6	6 1/2	7 1/4	9	9 3/4
474	1	1 1/4	2	2 3/4	4 1/4	4 1/2	4 3/4	6 1/2	8 1/2	10 1/4	11	14
476	4 1/2	4 1/2	5 3/4	6 3/4	8 1/4	9	9 1/4	11 1/2	13 1/2	15	16	19
530	3 1/4	3 1/2	4	4 1/4	5	5 1/2	6	6 1/2	8	8 1/2	10	14
574	1 1/2	1 1/2	2 1/2	3	4 1/2	4 3/4	5	6 1/4	8 1/2	10 1/4	12	15 1/2
576	5 3/4	5 3/4	6 1/2	7	8 1/2	8 3/4	10 3/4	11 1/4	13 1/2	15 1/4	16 1/4	20 1/2
594	.....	.....	.....	2 1/4	2 3/4	3 1/2	.....	.....	.....	.....	.....	.....
596	.....	.....	.....	6	6 1/2	7 1/2	.....	.....	.....	.....	.....	.....

SETS IN COMMON BOX AND ROLL

SETS IN BOX A

Set of	6	8	9	12	6	8	9	12
No. 200	1 3/4	.....	.....	3 1/2	3	.....	.....	.....
No. 220	2	3	2 3/4	4 1/2	3 1/2	5	4 3/4	6 3/4
No. 230	3	4	3 1/2	6	5	6	5 3/4	9

No.	6"	7"	8"	9"	10"	12"	14"
600	11 1/4	13 1/2	13 3/4	14 1/2	18	18 1/2	20 3/4
610	.....	.....	11 1/2	.....	11 3/4	.....	.....
615	.....	.....	.....	.....	15 3/4	.....	.....
620	.....	.....	.....	.....	.....	25	27
625	.....	.....	.....	.....	.....	28	31
625X	.....	.....	.....	.....	.....	.....	35
635	19 3/4	20 1/2	21	22	22 1/2	.....	.....

General on Chisels and Gouges

IN THE manufacture of our Chisels, Gouges and Draw Knives, only materials of the highest and well known quality are used.

The blades of these tools are made from a crucible steel of special analysis, having in mind toughness, uniformity and ability to take a temper for a fine, lasting cutting edge.

The shanks are drawn from the bar, but on socket tools the blades are invisibly welded to sockets of seamless drawn steel tubing, the best known method of producing sockets for strength and uniform shape.

Chisels, Gouges and Draw Knives are regularly packed one-half dozen in a box and boxes are labeled neatly and distinctly.

To summarize, we start with steel of correct quality, use most approved methods known in manufacturing, tempering and finishing; carefully inspect and neatly pack all tools and guarantee each tool under the GREENLEE BRAND to be free from defects of material or workmanship. All of which make GREENLEE BRAND tools a most satisfactory and attractive line to handle.



A Sample Package

Chisel Set Assortments

WE SHOW on pages 70, 71, 74, 75, 80 and 81 a number of the most popular assortments of Socket Chisels, which we pack in sets.

Below we list the regular assortments of all the various items commonly called for in sets.

SOCKET BUTT CHISELS

- 6—One each, $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$, 1, $1\frac{1}{4}$, and $1\frac{1}{2}$ ".
- 12—One each, $\frac{1}{8}$, $\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$, $\frac{7}{8}$, 1, $1\frac{1}{4}$, $1\frac{1}{2}$, $1\frac{3}{4}$, and 2".

SHORT SOCKET FIRMER CHISELS

- 6—One each, $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$, 1, $1\frac{1}{2}$, and 2".
- 8—One each, $\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{3}{4}$, 1, $1\frac{1}{4}$, $1\frac{1}{2}$, and 2".
- 9—One each, $\frac{1}{8}$, $\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$, 1, $1\frac{1}{4}$, and $1\frac{1}{2}$ ".
- 12—One each, $\frac{1}{8}$, $\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$, $\frac{7}{8}$, 1, $1\frac{1}{4}$, $1\frac{1}{2}$, $1\frac{3}{4}$, and 2".

SOCKET FIRMER CHISELS

- 6—One each, $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$, 1, $1\frac{1}{2}$, and 2".
- 8—One each, $\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{3}{4}$, 1, $1\frac{1}{4}$, $1\frac{1}{2}$, and 2".
- 9—One each, $\frac{1}{8}$, $\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$, 1, $1\frac{1}{4}$, and $1\frac{1}{2}$ ".
- 12—One each, $\frac{1}{8}$, $\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$, $\frac{7}{8}$, 1, $1\frac{1}{4}$, $1\frac{1}{2}$, $1\frac{3}{4}$, and 2".

TANG BUTT CHISELS

- 6—One each, $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$, 1, $1\frac{1}{4}$, and $1\frac{1}{2}$ ".

TANG FIRMER CHISELS

- 6—One each, $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$, 1, $1\frac{1}{4}$, and $1\frac{1}{2}$ ".
- 12—One each, $\frac{1}{8}$, $\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$, $\frac{7}{8}$, 1, $1\frac{1}{4}$, $1\frac{1}{2}$, $1\frac{3}{4}$, and 2".

These are the regular set assortments. They may be varied when desired either as to the class of tools or the variety of sizes included. This variation is of course limited by the capacity of set boxes or rolls unless specified in sufficient quantities to warrant special set packages.

Price Lists of Chisel Sets

THE following list prices cover assortments as shown on preceding page, packed in common slide cover boxes. When packed in rolls or box "A." charge for same must be added.

Net extra charge for all chisels with bevel edges.

	With All Wood Handles	With Leather Tipped Handles
Socket Butt Chisels		
Set of 6	\$8.10	\$8.95
Set of 12	16.70	18.50
Short Socket Firmer Chisels		
Set of 6	\$8.45	\$9.30
Set of 8	11.10	12.30
Set of 9	11.50	12.75
Set of 12	16.70	18.50
Socket Firmer Chisels		
Set of 6	\$8.45	\$9.30
Set of 8	11.10	12.30
Set of 9	11.50	12.75
Set of 12	16.70	18.50
Tang Butt Chisels		
Set of 6	\$3.85	\$4.25
Tang Firmer Chisels		
Set of 6	\$3.85	\$4.25
Set of 12	8.25	9.05

PRICE LIST OF BOXES AND ROLLS FOR CHISEL SETS

To hold	6	8	9	12	
Box A	\$1.00	....	....	....	Butt Chisels
Roll	.80	....	....	....	Butt Chisels
Roll	.90	....	....	1.50	Firmer Chisels
Box A	1.00	1.25	1.35	1.60	Firmer Chisels



No. 200 Socket Butt Chisel

BEVEL EDGE—LEATHER TIP

THE No. 200 Greenlee Socket Butt Chisels have beveled edges and are fitted with three ply leather tipped hardwood handles. Blades, sockets and handles including leather tips are fully polished.

These chisels have thin light blade made of high carbon tool steel, measuring three inches from cutting edge to the shoulder, and sockets are made of seamless steel tubing invisibly welded to the blade. The overall length ranges from 9 inches on the smallest size to 10 inches on the largest, both handle and socket being short in keeping with the balance of the tool.

For set packages see pages 70 and 71.

Standard package $\frac{1}{2}$ dozen in a box. Listed sizes carried in stock.

LIST PRICE PER DOZEN

Size	$\frac{1}{8}$ "	$\frac{1}{4}$ "	$\frac{3}{8}$ "	$\frac{1}{2}$ "	$\frac{5}{8}$ "	$\frac{3}{4}$ "
Code	VATICAN	VATICIDE	VAUDOIS	VAUDOUX	VAULTAGE	VAULTED
Price	\$14.00	14.00	14.00	14.00	15.50	16.00
Size	$\frac{7}{8}$ "	1"	$1\frac{1}{4}$ "	$1\frac{1}{2}$ "	$1\frac{3}{4}$ "	2"
Code	VAULTERS	VAULTING	VAULTURE	VAUNTING	VAUNTIE	VAVASOR
Price	\$18.00	18.50	20.50	22.00	24.00	25.00

Net extra for bevel edges, see discount sheet.



No. 205 Socket Butt Chisel

PLAIN BLADE—ALL WOOD HANDLE

OUR No. 205 Greenlee Socket Butt Chisels have plain edges and are fitted with all wood handles, properly shaped to fit the palm of the hand. Blades sockets and handles are fully polished.

We make our Butt Chisels with thin light blade of a selected high carbon tool steel, measuring three inches from cutting edge to shoulder. Sockets are made of seamless steel tubing invisibly welded to the blade. The overall length ranges from 9 inches on the smallest size to 10 inches on the largest, both handle and socket being short in keeping with the balance of the tool.

For set assortments, see pages 66 and 67.

Standard package $\frac{1}{2}$ dozen in a box. Listed sizes carried in stock.

LIST PRICE PER DOZEN

Size	$\frac{1}{8}$ "	$\frac{1}{4}$ "	$\frac{3}{8}$ "	$\frac{1}{2}$ "	$\frac{5}{8}$ "	$\frac{3}{4}$ "
Code	VEALSKIN	VECTIS	VEDALIA	VEDANTA	VEDANTIN	VEDETTTE
Price	\$12.50	12.50	12.50	12.50	14.00	14.50
Size	$\frac{7}{8}$ "	1"	$1\frac{1}{4}$ "	$1\frac{1}{2}$ "	$1\frac{3}{4}$ "	2"
Code	VEERABLE	VEERING	VEGETAL	VEGETATE	VEHEMENT	VEHICLE
Price	\$16.00	16.50	18.50	20.00	22.00	23.00



Set of Socket Butt Chisels in Box A

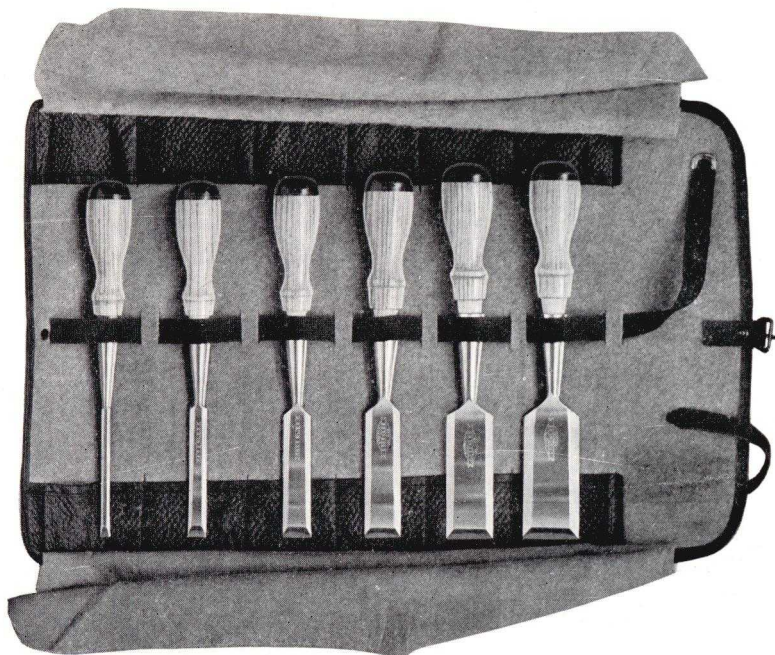
BEVEL EDGE—LEATHER TIP

OUR No. 200 Socket Butt Chisel can be furnished in sets of six, packed in our Box A as illustrated above. Box is well made, neatly finished, enclosed in paper board container, and attractively labeled. See page 68 for complete description of above number.

Each set consists of one each, $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$, 1, $1\frac{1}{4}$ and $1\frac{1}{2}$ -inch chisels.

List price is for chisels only. Box charge is extra, see box list. Bevel edges take an additional net charge, see discount sheet.

	Number	Code	Price
Set of 6 No. 200	R-200-A	VALIANT	\$8.95
Box A for 6 Butt Chisels.....			1.00



Set of Socket Butt Chisels in Leatherette Roll

BEVEL EDGE—LEATHER TIP

GREENLEE No. 200 Socket Butt Chisels can be furnished in sets of six, packed in Leatherette Roll as illustrated above. The Roll is finished black, and has separate pockets to protect edges of chisels. See page 68 for description of above tools.

The set consists of one each, $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$, 1, $1\frac{1}{4}$, and $1\frac{1}{2}$ -inch chisels.

List price is for chisels only. Roll charge is extra, see roll list. Bevel edges take an additional net charge, see discount sheet.

	Number	Code	Price
Set of 6 No. 200	R-200-D	VALERATE	\$8.95
Leatherette Roll for 6 Butt Chisels.....			.80



No. 220 Short Socket Firmer Chisel

BEVEL EDGE—LEATHER TIP

GREENLEE No. 220 Short Socket Firmer Chisels have beveled edges, and are fitted with three ply leather tipped handles of hard wood. Blades, sockets, and handles including leather tips are fully polished.

These chisels are made of highest quality material, the blades measuring $4\frac{1}{2}$ inches from cutting edge to shoulder. The overall length ranges from $11\frac{1}{2}$ inches on the smaller sizes to $12\frac{1}{2}$ inches on the larger.

For set packages see pages 74 and 75.

Standard package $\frac{1}{2}$ dozen in a box. Sizes listed carried in stock.

LIST PRICE PER DOZEN

Size	$\frac{1}{8}$ "	$\frac{1}{4}$ "	$\frac{3}{8}$ "	$\frac{1}{2}$ "	$\frac{5}{8}$ "	$\frac{3}{4}$ "
Code	VOCABLE	VOCALISM	VOCALITY	VOCATIVE	VODANIUM	VODYANY
Price	\$14.00	14.00	14.00	14.00	15.50	16.00
Size	$\frac{7}{8}$ "	1"	$1\frac{1}{4}$ "	$1\frac{1}{2}$ "	$1\frac{3}{4}$ "	2"
Code	VOETIAN	VOGLITE	VOICEFUL	VOICELESS	VOILABLE	VOIDANCE
Price	\$18.00	18.50	20.50	22.00	24.00	25.00

Net extra for beveled edges, see discount sheet.



No. 225 Short Socket Firmer Chisel

PLAIN BLADE—ALL WOOD HANDLE

THE Greenlee No. 225 Short Socket Firmer Chisels have plain edged blades, and are fitted with all wood handles of selected hard wood. Blades, sockets, and handles are fully polished.

These chisels are made of highest quality material, the blades measuring $4\frac{1}{2}$ inches from cutting edge to shoulder. The overall length ranges from $11\frac{1}{2}$ inches on the smaller sizes to $12\frac{1}{2}$ inches on the larger.

For set assortments see pages 66 and 67.

Standard package $\frac{1}{2}$ dozen in a box. Listed sizes carried in stock.

LIST PRICE PER DOZEN

Size	$\frac{1}{8}$ "	$\frac{1}{4}$ "	$\frac{3}{8}$ "	$\frac{1}{2}$ "	$\frac{5}{8}$ "	$\frac{3}{4}$ "
Code	VOLATOR	VOLCANIC	VOLCANUS	VOLENTLY	VOLITANT	VOLITIVE
Price	\$12.50	12.50	12.50	12.50	14.00	14.50
Size	$\frac{7}{8}$ "	1"	$1\frac{1}{4}$ "	$1\frac{1}{2}$ "	$1\frac{3}{4}$ "	2"
Code	VOLLENGE	VOLLEYS	VOLOWER	VOLSCIAN	VOLSELLA	VOLSUNGS
Price	\$16.00	16.50	18.50	20.00	22.00	23.00



Sets of Short Socket Firmer Chisels in Box A

BEVEL EDGE—LEATHER TIP

SHORT Socket Firmer Chisels our No. 220 described on page 72 can be furnished in sets packed in our Box A as illustrated above. This is a well made wood case, properly finished, and has hinged cover. The contents of sets listed below are given on page 66 and on page 75 we show other assortments of this type of tool.

List prices cover chisels only. Box charge is extra, see box list. Bevel edges take an extra net charge, see discount sheet.

	Number	Code	Price
Set of 6 No. 220	R-220-A	VACOUS	\$ 9.30
Set of 8 No. 220	V-220-A	VACALUR	12.30
Set of 9 No. 220	W-220-A	VACARRY	12.75
Set of 12 No. 220	Y-220-A	VACCINS	18.50
Box A for 6 Chisels.....			1.00
Box A for 8 Chisels.....			1.25
Box A for 9 Chisels.....			1.35
Box A for 12 Chisels.....			1.60



Sets of Short Socket Firmer Chisels in Rolls

BEVEL EDGE—LEATHER TIP

GREENLEE No. 220 Short Socket Firmer Chisels as described on page 72 can be supplied in sets of six or twelve packed in leatherette roll as illustrated above. The set of six consists of one each $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$, 1, $1\frac{1}{2}$ and 2-inch and the set of twelve, all sizes $\frac{1}{8}$ to 2-inch.

List prices cover chisels only. Roll charge must be added, see roll list. Bevel edges take an extra net charge, see discount sheet.

	Number	Code	Price
Set of 6 No. 220	R-220-D	VAIABLE	\$ 9.30
Set of 12 No. 220	Y-220-D	VAILLANT	18.50
Leatherette Roll for 6 Short Socket Firmer Chisels.....			.90
Leatherette Roll for 12 Short Socket Firmer Chisels.....			1.50



No. 230 Socket Firmer Chisel

BEVEL EDGE—LEATHER TIP

OUR No. 230 Greenlee Socket Firmer Chisels have beveled edge blade, and are fitted with three ply leather tipped handles of hard wood. Blades, sockets, and handles including leather tips are fully polished.

These chisels are made of selected high carbon tool steel, and the sockets are formed from seamless steel tubing invisibly welded to the blade. The overall length ranges from 13 inches on the smaller to 14½ inches on the larger sizes, all being made with blade 6¼ inches long.

For set packages see pages 80 and 81.

Standard package ½ dozen in a box. Sizes listed carried in stock.

LIST PRICE PER DOZEN

Size	⅛"	¼"	⅜"	½"	⅝"	¾"
Code	VANADATE	VANADIC	VANADYL	VANDALS	VANDYKE	VANESSA
Price	\$14.00	14.00	14.00	14.00	15.50	16.00
Size	⅞"	1"	1¼"	1½"	1¾"	2"
Code	VANFOSS	VANGUARD	VANILLIC	VANISHED	VANILLA	VANITIED
Price	\$18.00	18.50	20.50	22.00	24.00	25.00

Add net extra charge for bevel edges, see discount sheet.



No. 236 Socket Firmer Chisel

PLAIN BLADE—LEATHER TIP

THE No. 236 Greenlee Socket Firmer Chisels have plain edges and are supplied with leather tipped handles of three ply thickness. Blades, sockets, and handles including leather tips are fully polished.

Our Firmer Chisels are made of selected high carbon tool steel, and the sockets are formed from seamless steel tubing invisibly welded to the blade. The overall length varies from 13 inches on the smaller sizes to 14½ inches on the larger, all sizes having 6¼-inch blade.

See pages 66 and 67 for set assortments.

Standard package ½ dozen in a box. Listed sizes carried in stock.

LIST PRICE PER DOZEN

Size	⅛"	¼"	⅜"	½"	⅝"	¾"
Code	VARANUS	VARGUENO	VARIABLE	VARIANCE	VARIATE	VARIATOR
Price	\$14.00	14.00	14.00	14.00	15.50	16.00

Size	⅞"	1"	1¼"	1½"	1¾"	2"
Code	VARICULA	VARIETAL	VARIETY	VARIFORM	VARIOUS	VARISSE
Price	\$18.00	18.50	20.50	22.00	24.00	25.00



No. 231 Socket Firmer Chisel

BEVEL EDGE—ALL WOOD HANDLE

GREENLEE No. 231 Socket Firmer Chisels are the same as our No. 230 page 76 with the exception that we fit them with an all wood handle of selected hardwood.

These chisels have 6¼-inch blade measuring from cutting edge to shoulder, the overall length varying from 13 inches on the smaller sizes to 14½ inches on the larger.

For set assortments see pages 66 and 67.

Standard package ½ dozen in a box. Sizes listed carried in stock.

LIST PRICE PER DOZEN

Size	⅛"	¼"	⅜"	½"	⅝"	¾"
Code	VANMOST	VANNER	VANQUISHT	VANSIRE	VANTBRACE	VANTMURE
Price	\$12.50	12.50	12.50	12.50	14.00	14.50

Size	⅞"	1"	1¼"	1½"	1¾"	2"
Code	VANTOUR	VANWARD	VAPORER	VAPORING	VAPOROLE	VAPOROUS
Price	\$16.00	16.50	18.50	20.00	22.00	23.00

Add net extra charge for bevel edges, see discount sheets.



No. 235 Socket Firmer Chisel

PLAIN BLADE—ALL WOOD HANDLE

OUR No. 235 Greenlee Socket Firmer Chisels have plain blade, $6\frac{1}{4}$ inches long, and are fitted with all wood handle of selected hard wood. The blade, socket and handle are fully polished.

While these chisels are of the same quality and finish as our No. 230, by omitting the beveled edges and substituting all wood handles instead of leather tipped, the price of the tools is materially reduced.

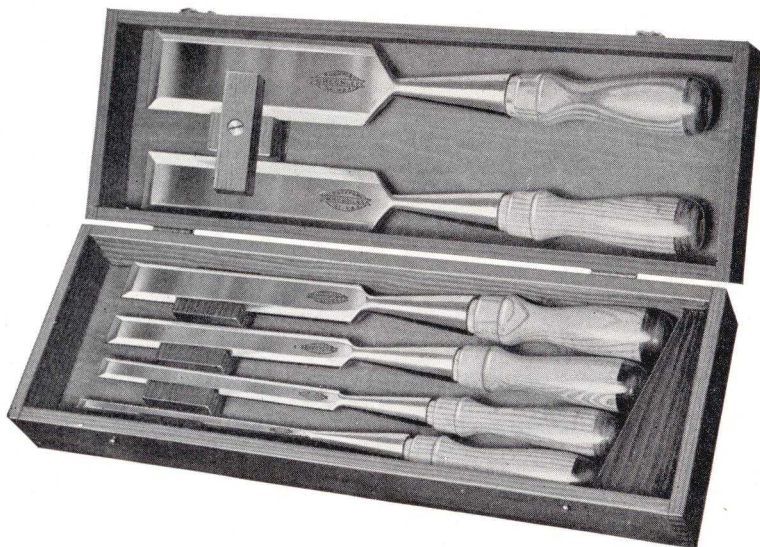
For set assortments, see pages 66 and 67.

Standard package $\frac{1}{2}$ dozen in a box. Listed sizes carried in stock.

LIST PRICE PER DOZEN

Size	$\frac{1}{8}$ "	$\frac{1}{4}$ "	$\frac{3}{8}$ "	$\frac{1}{2}$ "	$\frac{5}{8}$ "	$\frac{3}{4}$ "
Code	VARLETS	VARMINT	VARNISHES	VAROLIAN	VARSIITY	VARVELED
Price	\$12.50	12.50	12.50	12.50	14.00	14.50

Size	$\frac{7}{8}$ "	1"	$1\frac{1}{4}$ "	$1\frac{1}{2}$ "	$1\frac{3}{4}$ "	2"
Code	VASCULAR	VASCULUM	VASELINE	VASOMOTOR	VASQUINE	VASSALRY
Price	\$16.00	16.50	18.50	20.00	22.00	23.00



Sets of Socket Firmer Chisels in Box A

BEVEL EDGE—LEATHER TIP

GREENLEE No. 230 Socket Firmer Chisels, described on page 76 can be supplied in sets packed in our Box A as illustrated above. This box is well made, and finished and has hinged cover. The contents of sets listed below are given on page 66 and on page 81 we show other assortments of this type.

List prices cover Chisels only. Box charge is extra, see box list. Bevel edges take an additional net charge, see discount sheet.

	Number	Code	Price
Set of 6 No. 230	R-230-A	VACUITY	\$ 9.30
Set of 8 No. 230	V-230-A	VACANCY	12.30
Set of 9 No. 230	W-230-A	VACATED	12.75
Set of 12 No. 230	Y-230-A	VACATION	18.50
Box A for 6 Chisels.....			1.00
Box A for 8 Chisels.....			1.25
Box A for 9 Chisels.....			1.35
Box A for 12 Chisels.....			1.60



Sets of Socket Firmer Chisels in Rolls

BEVEL EDGE—LEATHER TIP

OUR No. 230 Socket Firmer Chisels described on page 76 can be furnished in sets of six or twelve packed in leatherette roll as illustrated above. The set of six consists of one each, $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$, 1, $1\frac{1}{2}$ and 2-inch and the set of twelve all sizes $\frac{1}{8}$ to 2-inch.

List prices cover chisels only. Roll charge must be added, see roll list. Bevel edges take an extra net charge, see discount sheet.

	Number	Code	Price
Set of 6 No. 230	R-230-D	VAIMURE	\$ 9.30
Set of 12 No. 230	Y-230-D	VAINFUL	18.50
Leatherette Roll for 6 Socket Firmer Chisels.....			.90
Leatherette Roll for 12 Socket Firmer Chisels.....			1.50



No. 261 Socket Framing Chisel

BEVEL EDGE—RINGED HANDLE

OUR No. 261 Greenlee Socket Framing Chisels have beveled edges, and long hardwood handles fitted with nickered pressed steel rings. The blades, sockets and handles are fully polished.

The blades, measuring 8 inches long, are of extra heavy cross section, made of solid steel, and the sockets are of heavier gauge, proportionately longer than the firmer chisels. The overall length ranges from 16 inches on the smallest to 17½ inches on the largest sizes.

Standard package ½ dozen in a box. Sizes as listed carried in stock.

LIST PRICE PER DOZEN

Size	¼"	⅜"	½"	⅝"	¾"	⅞"
Code	VEILLERS	VEILLLESS	VEINAGE	VEINING	VEINLET	VEINLIKE
Price	\$9.00	9.00	9.00	9.50	10.00	10.50

Size	1"	1¼"	1½"	1¾"	2"
Code	VEINOUS	VELARIUM	VELATAE	VELATURA	VELDTS
Price	\$11.00	12.00	13.00	14.50	16.00

Add net extra for bevel edges, see discount sheet.



No. 265 Socket Framing Chisel

PLAIN BLADE—RINGED HANDLE

THE No. 265 Greenlee Socket Framing Chisels have plain edges, and long hardwood handles fitted with nickeled pressed steel rings. The blades, sockets and handles are fully polished.

The blades, measuring 8 inches long, are of extra heavy cross section, made of solid steel, and the sockets are of heavier gauge, proportionately longer than the firmer chisels. The overall length ranges from 16 inches on the smallest to 17½ inches on the largest sizes.

Standard package ½ dozen in a box. Listed sizes carried in stock.

LIST PRICE PER DOZEN

Size	¼"	⅜"	½"	⅝"	¾"	7⁄8"
Code	VELIGER	VELIDAE	VELINCHE	VELLARIN	VELLEITY	VELLOPED
Price	\$9.00	9.00	9.00	9.50	10.00	10.50
Size	1"	1¼"	1½"	1¾"	2"	
Code	VELLUMS	VELOCE	VELOCITY	VELOURS	VELOUTE	
Price	\$11.00	12.00	13.00	14.50	16.00	



No. 290 Socket Slick

GREENLEE No. 290 Socket Slicks have oval backs, blade measuring 10 inches long forged from solid steel. They are fitted with hardwood maple handles 14 inches long and the overall length of the complete tool is about 30 inches.

The sockets are formed from heavy gauge seamless steel tubing invisibly welded to the blade, which is high carbon tool steel. The entire tool including handle is fully polished.

Standard package one-sixth dozen in box. Listed sizes carried in stock.

LIST PRICE PER DOZEN

Size	2½"	3"	3½"	4"
Code	VENILHD	VENISON	VENOMAL	VENOMER
Price	\$37.50	43.00	51.00	60.00



No. 295 Socket Corner Chisel

OUR No. 295 Greenlee Socket Corner Chisels have right angle blades, and have long hardwood handles fitted with nickel plated pressed steel rings.

These tools have blades 8 inches in length, the outside being polished, the inside of angle gilded, making a very attractive tool. The overall length of both sizes is 17 inches.

Standard package is $\frac{1}{2}$ dozen in a box. Listed sizes in stock.

LIST PRICE PER DOZEN

Size	$\frac{3}{4}$ "	1"
Code	VENOMSAC	VENOUSLY
Price	\$22.50	25.50



No. 330 Socket Firmer Gouge

OUTSIDE BEVEL—LEATHER TIP

THE No. 330 Greenlee Socket Firmer Gouges have outside bevels and three ply leather tipped hardwood handles. The sockets and both the convex and concave surfaces are fully polished.

Measuring from cutting edge to shoulder, these gouges have blade length of $6\frac{1}{4}$ inches and have an overall dimension of 13 inches on the smaller sizes to $14\frac{1}{2}$ inches on the larger.

No. 336 GREENLEE SOCKET FIRMER GOUGES are the same as the above with exception that they have inside cutting bevel. They take list published below.

Standard package $\frac{1}{2}$ dozen in a box. Sizes listed in stock.

LIST PRICE PER DOZEN

Size	$\frac{1}{8}"$	$\frac{1}{4}"$	$\frac{3}{8}"$	$\frac{1}{2}"$	$\frac{5}{8}"$	$\frac{3}{4}"$
Code	VERNACLE	VERNAGE	VERNALLY	VERNANT	VERNATE	VERNILE
Price	\$10.50	10.50	10.50	11.00	11.50	12.25
Size	$\frac{7}{8}"$	1"	$1\frac{1}{4}"$	$1\frac{1}{2}"$	$1\frac{3}{4}"$	2"
Code	VERNONIN	VERNUNFT	VERONESE	VERONICA	VERRUCA	VERRUGAS
Price	\$13.25	14.00	15.50	17.25	18.75	21.25



No. 335 Socket Firmer Gouge

INSIDE BEVEL—ALL WOOD HANDLES

GREENLEE No. 335 Socket Firmer Gouges have inside bevels and are fitted with all wood handles of selected hardwood. The sockets and both the convex and concave surfaces are fully polished.

The blade, measuring from cutting edge to shoulder, has a length of $6\frac{1}{4}$ inches, and they have an overall dimension of 13 inches on the smaller to $14\frac{1}{2}$ inches on the larger sizes.

No. 331 GREENLEE SOCKET FIRMER GOUGES are the same as the above with the exception that they have outside cutting bevel. They take list as published below.

Standard package $\frac{1}{2}$ dozen in a box. Sizes listed in stock.

LIST PRICE PER DOZEN

Size	$\frac{1}{8}$ "	$\frac{1}{4}$ "	$\frac{3}{8}$ "	$\frac{1}{2}$ "	$\frac{5}{8}$ "	$\frac{3}{4}$ "
Code	VERSABLE	VERSACRUM	VERSELET	VERSETTO	VERSICOLOR	VERSIERA
Price	\$9.50	9.50	9.50	10.00	10.50	11.25
Size	$\frac{7}{8}$ "	1"	$1\frac{1}{4}$ "	$1\frac{1}{2}$ "	$1\frac{3}{4}$ "	2"
Code	VERSIFORM	VERSIFIER	VERSIONAL	VERSTAND	VERSUAL	VERSUTE
Price	\$12.00	12.75	14.25	16.00	17.50	20.00



No. 400 Tang Butt Chisel

BEVEL EDGE—LEATHER TIP

THE No. 400 Greenlee Tang Butt Chisels have beveled edges, are fitted with three ply leather tipped handles of hardwood, and tenons are reenforced by heavy brass ferrules. The blades, necks, and handles including leather tips are fully polished.

These chisels have thin light blade made of high carbon tool steel, measuring 3 inches from cutting edge to shoulder. The neck, round, bolster and tang are drawn from the bar. The overall length varies from 8½ inches on the smaller sizes to 9¼ inches on the larger.

For set assortments see pages 66 and 67.

Standard package ½ dozen in a box. Sizes listed in stock.

LIST PRICE PER DOZEN

Size	⅛"	¼"	⅜"	½"	⅝"	¾"
Code	VIADUCT	VIALFUL	VIAMETER	VIAPPLE	VIATICUM	VIATORS
Price	\$6.40	6.40	6.40	6.40	6.70	7.10
Size	⅞"	1"	1¼"	1½"	1¾"	2"
Code	VIBICES	VIBIANCY	VIBRATE	VIBRATOR	VIBRISSA	VIBROGEN
Price	\$7.60	8.20	9.50	11.00	12.75	15.00

Add net extra charge for bevel edges, see discount sheet.



No. 405 Tang Butt Chisel

PLAIN BLADE—ALL WOOD HANDLE

OUR No. 405 Greenlee Tang Butt Chisels have plain blades, are fitted with all wood handles of selected hardwood, and tenons are supported by heavy brass ferrules. The blades, necks and handles are fully polished.

These chisels have thin light blade made of high carbon tool steel, measuring 3 inches from cutting edge to shoulder. The neck, round, bolster, and tang are drawn from the bar. The overall length varies from 8½ inches on the smaller sizes to 9¼ inches on the larger.

For set assortments see pages 66 and 67.

Standard package ½ dozen in a box. Listed sizes in stock.

LIST PRICE PER DOZEN

Size	1/8"	1/4"	3/8"	1/2"	5/8"	3/4"
Code	VICARAGE	VICARESS	VICARIAL	VICARIUS	VICEDEAN	VICEKING
Price	\$5.65	5.65	5.65	5.65	5.95	6.35

Size	7/8"	1"	1 1/4"	1 1/2"	1 3/4"	2"
Code	VICEMAN	VICEROY	VICINAGE	VICINITY	VICIOUS	VICTORY
Price	\$6.85	7.45	8.75	10.25	12.00	14.25



No. 430 Tang Firmer Chisel

BEVEL EDGE—LEATHER TIP

GREENLEE No. 430 Tang Firmer Chisels have beveled edges, are fitted with three ply leather tipped handles of hardwood, and tenons are supported by heavy brass ferrules. The blades, necks, and handles including leather tips are fully polished.

These tools have a light blade made of selected tool steel, measuring $4\frac{1}{2}$ inches from cutting edge to shoulder. The overall length varies from $10\frac{1}{2}$ inches on the smaller to 13 inches on the larger sizes.

No. 436 GREENLEE TANG FIRMER CHISELS are the same as the above with the exception that they have plain edges. They take list price as published below.

Standard package $\frac{1}{2}$ dozen in a box. Listed sizes in stock.

LIST PRICE PER DOZEN

Size	$\frac{1}{8}$ "	$\frac{1}{4}$ "	$\frac{3}{8}$ "	$\frac{1}{2}$ "	$\frac{5}{8}$ "	$\frac{3}{4}$ "
Code	VERTANT	VERTEBRA	VERTED	VERTICES	VERTICIL	VERTIGO
Price	\$6.40	6.40	6.40	6.40	6.70	7.10
Size	$\frac{7}{8}$ "	1"	$1\frac{1}{4}$ "	$1\frac{1}{2}$ "	$1\frac{3}{4}$ "	2"
Code	VERULED	VERVIAN	VERVELED	VERVELLE	VERVETS	VESALIAN
Price	\$7.60	8.20	9.50	11.00	12.75	15.00

Add net extra for bevel edges on No. 430. See discount sheet.



No. 435 Tang Firmer Chisel

PLAIN BLADE—ALL WOOD HANDLE

OUR No. 435 Greenlee Tang Firmer Chisels have plain blades, are fitted with all wood handles of selected hardwood, and tenons are reenforced by heavy brass ferrules. The blades, necks, and handles are fully polished.

These tools have a light blade made of selected tool steel, $4\frac{1}{2}$ inches long measuring from cutting edge to shoulder. The overall length varies from $10\frac{1}{2}$ inches on the smaller to 13 inches on the larger sizes.

No. 431 GREENLEE TANG FIRMER CHISELS are the same as the above with the exception that they have beveled edges. They take list price as given below.

Standard package $\frac{1}{2}$ dozen in a box. Sizes listed in stock.

LIST PRICE PER DOZEN

Size	$\frac{1}{8}$ "	$\frac{1}{4}$ "	$\frac{3}{8}$ "	$\frac{1}{2}$ "	$\frac{5}{8}$ "	$\frac{3}{4}$ "
Code	VESICANT	VESICATE	VESICLE	VESICULA	VESPERAL	VESPERS
Price	\$5.65	5.65	5.65	5.65	5.95	6.35
Size	$\frac{7}{8}$ "	1"	$1\frac{1}{4}$ "	$1\frac{1}{2}$ "	$1\frac{3}{4}$ "	2"
Code	VESPIRAY	VESPIDAE	VESPILLO	VESSELS	VESTALES	VESTALIA
Price	\$6.85	7.45	8.75	10.25	12.00	14.25

Add net extra for bevel edges on No. 431. See discount sheet.



No. 530 Tang Firmer Gouge

OUTSIDE BEVEL—LEATHER TIP

OUR No. 530 Greenlee Tang Firmer Gouges have outside bevels, three ply leather tipped handles of hardwood, and tenons are supported by heavy brass ferrules. The blades, necks and handles are fully polished.

These Gouges have a blade length of $4\frac{1}{2}$ inches measuring from cutting edge to shoulder. The overall dimension varies from $10\frac{1}{2}$ inches on the smaller sizes to 13 inches on the larger.

No. 536 GREENLEE TANG FIRMER GOUGES are the same as the above with the exception that they have inside cutting bevels. They take list as published below.

Standard package is $\frac{1}{2}$ dozen in a box. Listed sizes in stock.

LIST PRICE PER DOZEN

Size	$\frac{1}{8}$ "	$\frac{1}{4}$ "	$\frac{3}{8}$ "	$\frac{1}{2}$ "	$\frac{5}{8}$ "	$\frac{3}{4}$ "
Code	VIPERESS	VIPERID	VIPERINA	VIPERISH	VIPEROID	VIPEROUS
Price	\$7.70	7.70	7.70	7.70	8.10	8.60
Size	$\frac{7}{8}$ "	1"	$1\frac{1}{4}$ "	$1\frac{1}{2}$ "	$1\frac{3}{4}$ "	2"
Code	VIRELAY	VIRETON	VIRGATE	VIRGINAL	VIRGULE	VIRIDIAN
Price	\$9.30	10.00	11.75	13.75	16.00	19.00



No. 535 Tang Firmer Gouge

INSIDE BEVEL—ALL WOOD HANDLE

GREENLEE No. 535 Tang Firmer Gouges have inside bevels, all wood handles of selected hardwood, and tenons are reenforced by heavy brass ferrules. The blades, necks, and handles are fully polished.

These Gouges have a blade length of $4\frac{1}{2}$ inches measuring from cutting edge to shoulder, and the overall lengths vary from $10\frac{1}{2}$ inches on the smaller sizes to 13 inches on the larger.

No. 531 GREENLEE TANG FIRMER GOUGES are the same as the above with the exception that they have outside cutting bevels. They take list as given below.

Standard package is $\frac{1}{2}$ dozen in a box. Sizes listed in stock.

LIST PRICE PER DOZEN

Size	$\frac{1}{8}$ "	$\frac{1}{4}$ "	$\frac{3}{8}$ "	$\frac{1}{2}$ "	$\frac{5}{8}$ "	$\frac{3}{4}$ "
Code	VIRIDITE	VIRILIA	VIROLED	VIRONRY	VIRTUAL	VIRTUATE
Price	\$6.95	6.95	6.95	6.95	7.35	7.85

Size	$\frac{7}{8}$ "	1"	$1\frac{1}{4}$ "	$1\frac{1}{2}$ "	$1\frac{3}{4}$ "	2"
Code	VIRTUES	VIRTOUSE	VIRTUOUS	VIRULENT	VISAGED	VISCACHA
Price	\$8.55	9.25	11.00	13.00	15.25	18.25



No. 476 Turning Chisel

OUR No. 476 Greenlee Turning Chisels have blades measuring 8 inches long on sizes 1-inch and wider, smaller sizes being slightly shorter. They are fitted with polished hardwood handles 8 inches long and reenforced by heavy cast ferrules, brass plated.

Stock chisels have cutting edges ground on both sides of blade, being a combination right and left skew, and will answer for ordinary turning. For special requirements we can furnish round point, spear point, square point, right skew, or left skew. Chisels with special points list at \$1.00 per dozen advance over regular.

No. 474 GREENLEE TURNING CHISELS are without handles. Use list below deducting \$2.75 per dozen.

Standard package ½ dozen in a box. Sizes listed in stock.

LIST PRICE PER DOZEN

Size	⅛"	¼"	⅜"	½"	⅝"	¾"
Code	VITACACAE	VITALISM	VITALITY	VITALIZE	VITALLY	VITATIVE
Price	\$8.75	8.75	8.75	8.75	9.25	9.75
Size	⅞"	1"	1¼"	1½"	1¾"	2"
Code	VITELLIN	VITELLUS	VITESSE	VITATE	VITICULA	VITILIGO
Price	\$10.50	11.75	13.50	16.00	18.75	21.25



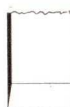
REGULAR
Skew



RIGHT
SKEW



LEFT
SKEW



SQUARE
POINT



SPEAR
POINT



ROUND
POINT



No. 576 Turning Gouge

THE No. 576 Greenlee Turning Gouges have blades measuring 8 inches long on sizes 1 inch and wider, the smaller sizes having a slightly reduced length to give added strength. They are fitted with 8-inch long polished hardwood handles and tenons are supported by heavy, brass plated cast ferrules.

The service required of a Turning Gouge is often severe and to provide proper strength, we make the blade with substantial cross section. These tools have an unusual degree of hardness as is required in wood turning.

No. 574 GREENLEE TURNING GOUGES are the same as the above except without handles. Use list given below less \$2.75 per dozen.

Regularly packed 1/2 dozen in a box. Listed sizes in stock.

LIST PRICE PER DOZEN

Size	1/8"	1/4"	3/8"	1/2"	5/8"	3/4"
Code	VITIOUS	VITIVERT	VITRELLA	VITREOUS	VITREUM	VITRICS
Price	\$10.25	10.25	10.25	10.25	10.75	12.00
Size	7/8"	1"	1 1/4"	1 1/2"	1 3/4"	2"
Code	VITRIFY	VITRINA	VITROIL	VITRITE	VITULAR	VITULINE
Price	\$13.25	14.25	17.25	21.25	24.50	29.00



No. 596 Parting Tool

GREENLEENo. 596 Parting Tools have blades 7 inches in length, and are fitted with 8-inch long polished hardwood handles. The tenons are well supported by heavy brass plated cast ferrules.

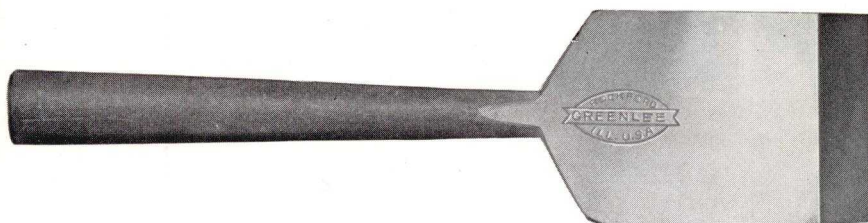
The blades are thin at the edges with a heavy section down the center. The thickness of the point on the $\frac{1}{2}$ -inch size is $\frac{5}{32}$ -inch, on the $\frac{5}{8}$ -inch size, $\frac{6}{32}$ -inch, and the $\frac{3}{4}$, $\frac{7}{32}$ -inch.

No. 594 GREENLEE PARTING TOOLS are the same as the above except without handles. They take the same list as published below, deducting \$2.75 per dozen.

Standard package $\frac{1}{2}$ dozen in a box. Sizes listed carried in stock.

LIST PRICE PER DOZEN

Size	$\frac{1}{2}$ "	$\frac{5}{8}$ "	$\frac{3}{4}$ "
Code	VIVENCY	VIVIDLY	VIVISECT
Price	\$6.00	6.50	7.00



No. 390 Glazier Chisel

THIS all steel chisel is especially designed for glaziers use. It has a cutting bevel about $\frac{5}{8}$ of an inch long for driving points and is useful for removing putty and cleaning out sash. Due to its weight and construction, it is also a convenient tool for setting and adjusting plate glass. Short or worn out wood chisels are sometimes used for glazing but these tools do not have sufficient weight for the purpose and the wooden handle is not serviceable when driving points.

The above Glazier Chisel is made from a solid piece of steel, the blade having a width of 2-inches, length of $2\frac{3}{4}$ -inches, and thickness of about $\frac{3}{8}$ -inch. The overall dimension is 8-inches. The face, back, and cutting bevel are fully polished and the balance of the tool is sand blasted.

Standard package is six in a box. Size listed in stock.

PRICE PER DOZEN

Size	Price	Code
2"	\$9.00	VULCANITE



No. 600 Razor Blade Draw Knife

THE No. 600 Greenlee Razor Blade Draw Knives have blades measuring a full $1\frac{3}{8}$ inches in width and are made from a solid piece of steel. The handles are of hardwood, mounted on shanks which pass through the handles, and are securely held in place by riveting on top of nickel plated caps.

These are the most popular style of draw knives, as the blades have sufficient stiffness and rigidity, yet are of light weight due to a concave section between cutting bevel and the rib. They are highly finished, sharpened, and ready for use.

Standard package $\frac{1}{2}$ dozen in a box. Sizes listed in stock.

LIST PRICE PER DOZEN

Length	6"	7"	8"	9"	10"
Code	URBENITE	UBEROUS	UBIQUITY	UBISUPRA	UDALMAN
Price	\$13.50	13.50	13.50	14.40	15.60
Length		12"		14"	
Code		UGGUROIL		UGLINESS	
Price		\$18.00		21.00	



No. 635 Folding Handle Draw Knife

FOLDING Handle Draw Knives, Greenlee No. 635 have the same style of blade as our No. 600, and are fitted with handles which fold over edges, protecting same, and preventing injury to anything with which they may come in contact.

The joints are made by lugs on the shanks, fitting in slots on the blade extensions, insuring rigidity and quick adjustment. The joints are locked with wing nuts so that neither wrench or screw driver is needed to lock or release.

To give light weight, we selected the Razor Blade pattern, and use shanks and wing nuts of high grade malleable. We supply mahogany stained handles, reinforced with steel ring, and slotted to fit cutting edge of knife.

The knife when folded packs in a space $3\frac{1}{2}$ inches wide and $1\frac{1}{2}$ inches high. They are packed individually in paper boxes.

Listed sizes carried in stock.

LIST PRICE PER DOZEN

Length	6"	7"	8"	9"	10"
Code	UMLANT	UMPIRAGE	UMPRESS	UMQUHILE	UMSTROKE
Price	\$28.00	28.00	28.00	29.00	30.50



No. 610 Carriage Makers' Draw Knife

THE No. 610 Greenlee Carriage Makers' Draw Knife is a light, thin knife with Blade 1 inch wide.

No. 610	Length, 8 inches.	Code word, ULLALULLE.	Price, \$12.00
No. 610.	Length, 10 inches.	Code word, ULLING.	Price, \$14.00



No. 615 Wagon Makers' Draw Knife

THE No. 615 Greenlee Wagon Makers' Draw Knife is designed for work in the heavier and harder woods. The Blade is 1 3/4 inches wide.

No. 615.	Length, 10 inches.	Code word, ULOSIS.	Price, \$15.00
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No. 620 Shingle Knife

OUR No. 620 Greenlee Shingle Knife has a medium heavy blade. This blade begins with a stocky rib connecting across the handles, and then the metal gradually tapers from this toward the cutting edge, there terminating with a short cutting bevel.

The blade is of laid stock and measures 1¾ inches wide. Handles are well shaped, of hardwood stock, finished natural or stained to a mahogany color, as desired. The tenons are reinforced with nickeled ferrules and handles are securely held in place by riveting shank over the cap.

This knife is well suited for requirements which demand a stiffer and stronger tool.

Standard package ½ dozen in a box. Listed sizes in stock.

LIST PRICE PER DOZEN

Length	12"	14"
Code	ULULANT	UMANGITE
Price	\$18.00	20.00



No. 625 Heavy Stripping Knife

THE No. 625 Greenlee Heavy Stripping Knives are made very heavy for the most severe duty. The side of the blade opposite the edge is thick but gradually tapers toward the cut, where the cutting edge is formed with a short and sharper bevel.

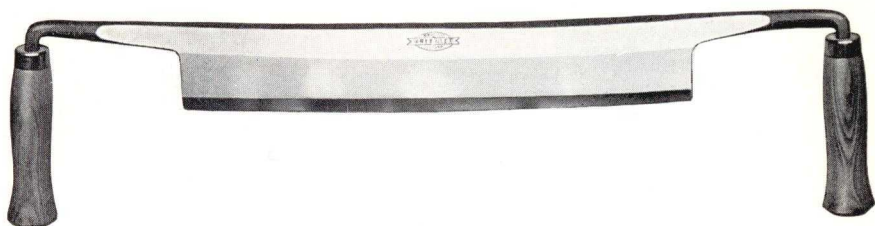
This blade is $1\frac{3}{4}$ inches wide, of laid steel, and with both the high carbon tool steel and the mild steel increased to make this heavier section. The handles are made of hardwood, finished natural. They are formed with considerable enlargement near the end to give better grip.

The blades are full polished and the shanks enameled black. The handles are fitted with heavy steel ferrules, but no caps are required. These knives are regularly furnished two in each package carefully wrapped.

Listed sizes carried in stock.

LIST PRICE PER DOZEN

Length	12"	14"
Code	UMBLES	UMBONIC
Price	\$21.60	25.20



No. 625X Extra Heavy Stripping Knife

OUR No. 625X Greenlee Extra Heavy Stripping Knife has a heavy blade $2\frac{1}{2}$ inches wide. The blades are full polished and the shanks are enameled black.

The handles are hardwood finished natural and are large and full formed with an enlarged end providing the best grip. They are fitted with heavy steel ferrules, but with this form of handle no cap is required.

On preceding page we show a similar Knife except made with the blade only $1\frac{3}{4}$ inches wide. With the blade $2\frac{1}{2}$ inches wide the amount of high carbon tool steel is increased in proportion to that of the mild steel. This gives a tool which will better stand up under rough usage.

We recommend this Knife for the user whose requirements are unusually severe. It offers real economy where maximum wear is desired. The Knife is especially adapted for peeling bark from poles or for similar uses.

Size as listed carried in stock. Standard package, two in a bundle.

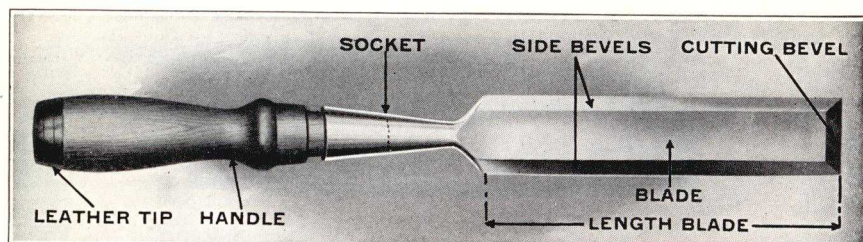
No. 625X.

14".

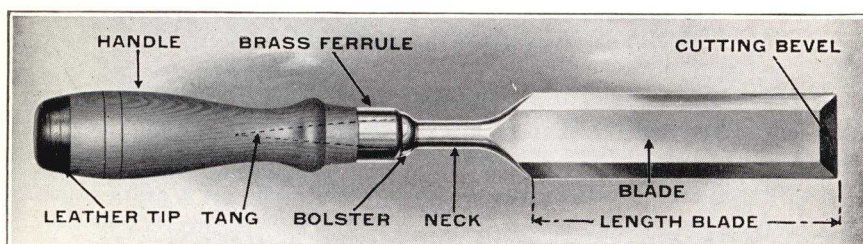
Code, UMBRINE

Price per dozen, \$25.20

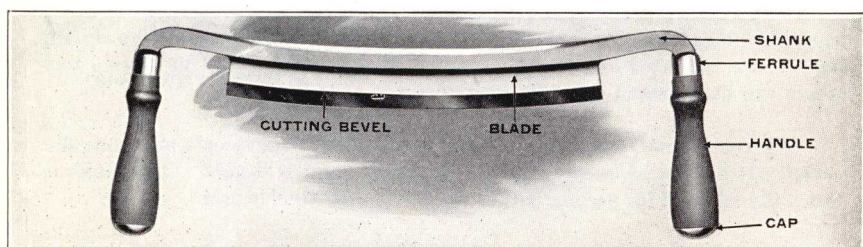
Parts of Chisels and Draw Knives



SOCKET FIRMER CHISEL



TANG FIRMER CHISEL



RAZOR BLADE DRAW KNIFE

Chisel Handles

WE LIST below all the various handles which we supply in connection with our chisels and gouges. These handles are all made from selected hardwood carefully turned to special pattern. The caps on all handles so fitted are made of three layers of well tanned leather. Wood and leather are turned to finished size at one time and both are thoroughly polished. The all-wood handles for Framing Chisels are fitted with polished steel rings. All handles for tang tools have brass ferrules.

LIST PRICE PER DOZEN

No.		All Wood	Leather Tipped	Weight Lbs.
A—	for Socket Firmer Chisels and Gouges $\frac{1}{8}$ to $\frac{1}{2}$ "	\$.80	\$1.10	1
B.....	$\frac{5}{8}$ to $\frac{7}{8}$ "	.84	1.16	$1\frac{1}{4}$
C.....	1 to $1\frac{1}{2}$ "	.88	1.25	$1\frac{1}{2}$
D.....	$1\frac{3}{4}$ & 2"	.94	1.35	2
Assorted.....		.86	1.20	$1\frac{1}{2}$
E—	for Socket Butt Chisels..... $\frac{1}{8}$ to $\frac{7}{8}$ "	.82	1.13	1
F.....	1 to 2"	.85	1.30	$1\frac{1}{2}$
Assorted.....		.83	1.20	$1\frac{1}{4}$
G—	for Tang Firmer Chisels and Gouges. $\frac{1}{8}$ to $\frac{1}{2}$ "	1.11	1.32	1
H.....	$\frac{5}{8}$ to $\frac{7}{8}$ "	1.16	1.43	$1\frac{1}{4}$
I.....	1 to $1\frac{1}{2}$ "	1.21	1.54	$1\frac{1}{2}$
J.....	$1\frac{3}{4}$ & 2"	1.32	1.70	2
Assorted.....		1.18	1.47	$1\frac{1}{2}$
K—	for Tang Butt Chisels..... $\frac{1}{8}$ to $\frac{7}{8}$ "	1.11	1.38	1
L.....	1 to $1\frac{1}{2}$ "	1.21	1.51	$1\frac{1}{4}$
M.....	$1\frac{3}{4}$ & 2"	1.32	1.65	$1\frac{1}{2}$
Assorted.....		1.17	1.46	$1\frac{1}{2}$
N—	for Socket Framing Chisels..... $\frac{1}{4}$ to $\frac{1}{2}$ "	1.10		$1\frac{1}{2}$
O.....	$\frac{5}{8}$ to $\frac{7}{8}$ "	1.17		$1\frac{3}{4}$
P.....	1 to $1\frac{1}{2}$ "	1.24		$2\frac{1}{4}$
Q.....	$1\frac{3}{4}$ & 2"	1.30		$2\frac{3}{4}$
Assorted.....		1.20		$2\frac{1}{4}$
R—	for Turning Tools..... $\frac{1}{8}$ to $\frac{1}{2}$ "	3.00		$3\frac{3}{4}$
S.....	$\frac{5}{8}$ to $\frac{7}{8}$ "	3.00		4
T.....	1 to 2"	3.00		$4\frac{1}{2}$
Assorted.....		3.00		$4\frac{1}{4}$
U—	for Slicks.....	3.00		9

Handles are packed one dozen in a paper box. Assorted dozens are made of the various sizes in the proportion used in packing sets.

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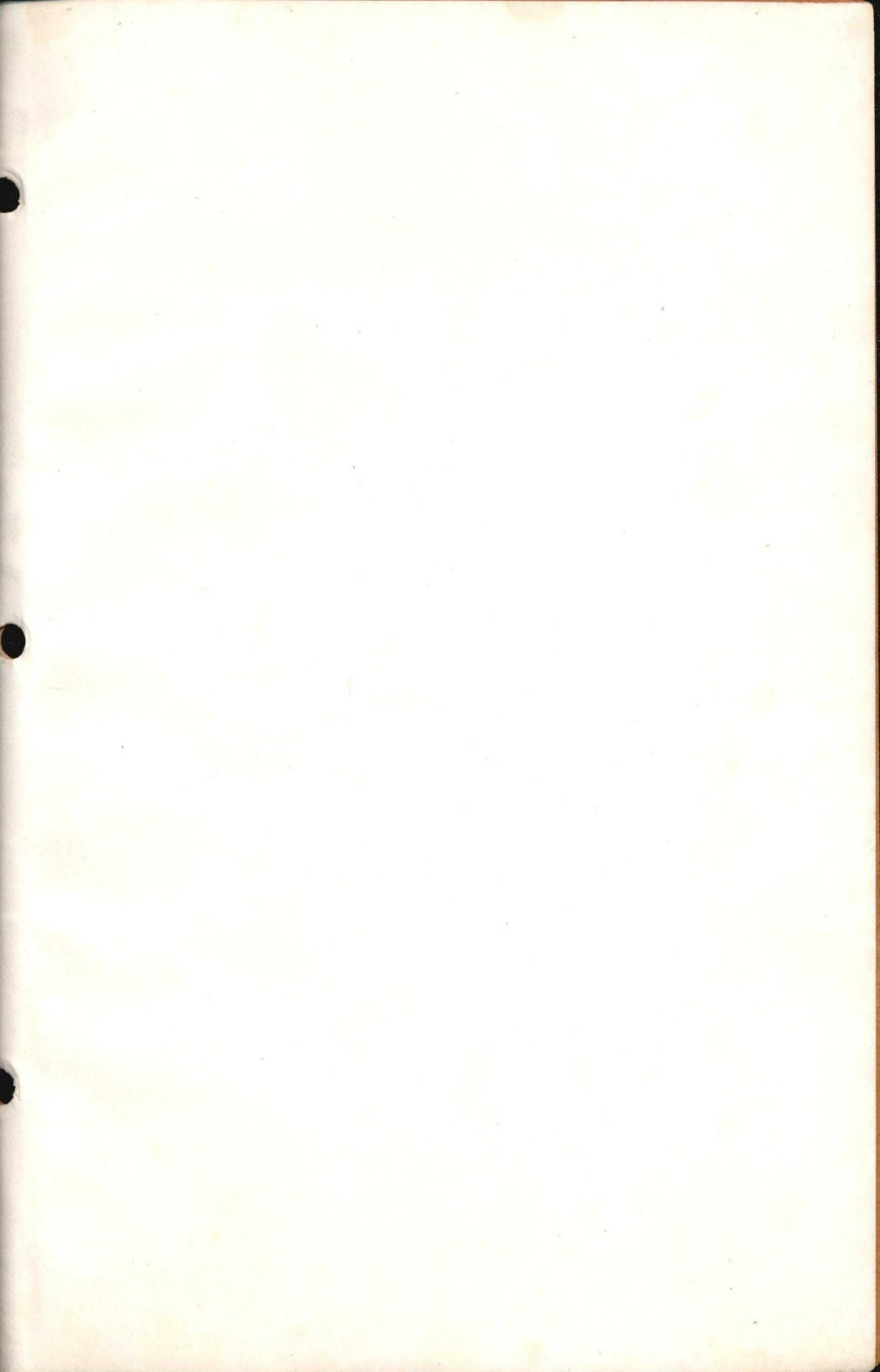
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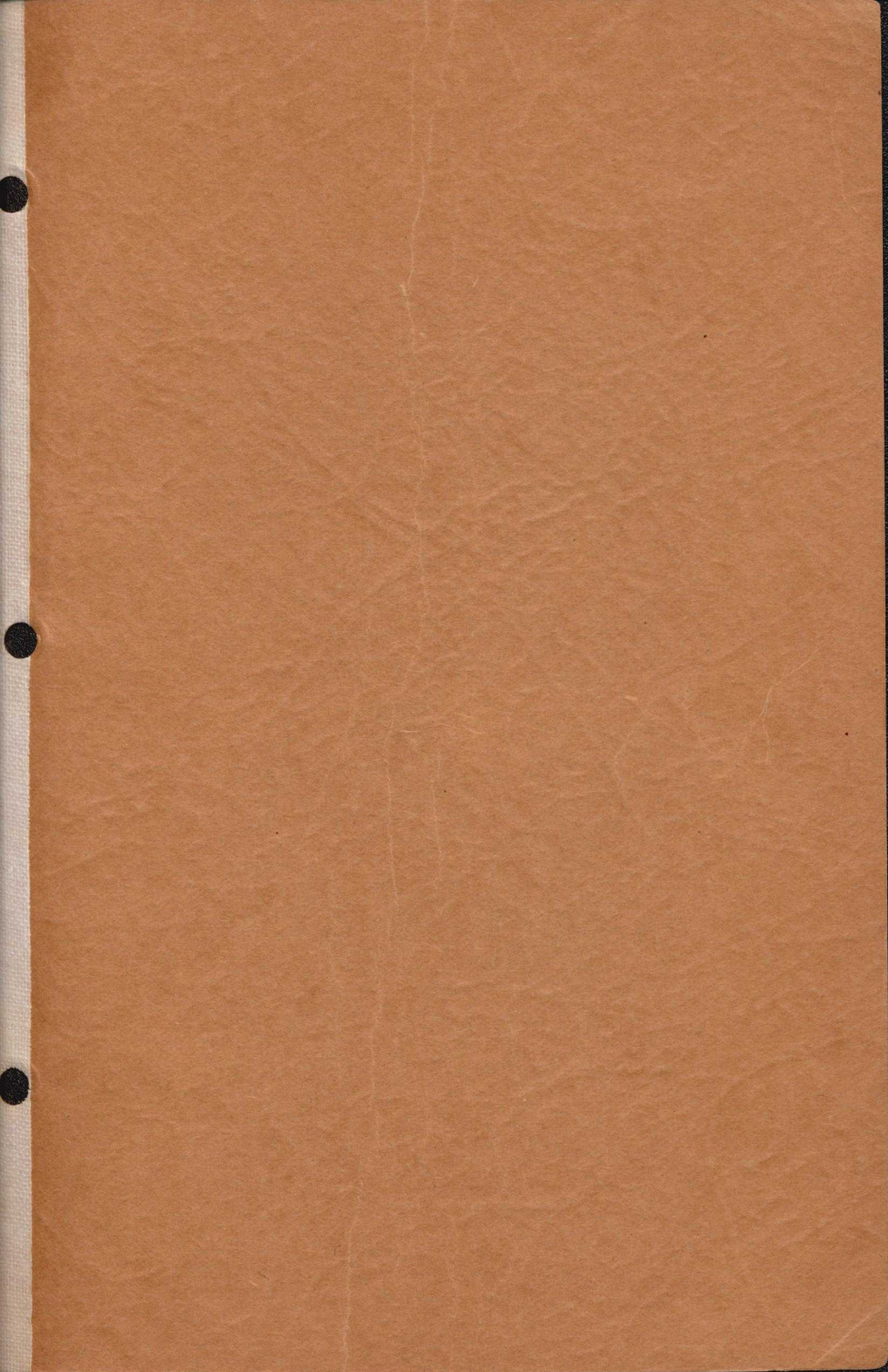
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